FUJITSU

USER'S MANUAL

English

WIDE PLASMA DISPLAY
P42HTS51E
P50XTS51E
P55XTS51E

AV SELECTOR FOR
WIDE PLASMA DISPLAY
P-TU4251E
P-TU5051E
P-TU5551E

Plasmavision™

AVM II Advanced Video Movement

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Before using the display, read this manual carefully so that you know how to use the display correctly.
Refer to this manual whenever questions or problems about operation arise. Be sure to read and observe the safety precautions (see the separate "Safety Precautions" manual).
Keep this manual where the user can see it easily.

* *Installation and removal require special expertise. Consult your product dealer for details.*

* *When "English" is selected at "Language" of the on-screen display, "colour" will be displayed but "color" is described in this manual.*

* *The last digit of MODEL NO. (10 digit alphanumeric characters) indicated on the product means the body color indication alphabet or the management number.*

FUJITSU GENERAL LIMITED

INFORMATION

- Receptacle

  Make sure that the power cord's grounding wire is grounded.

  The plasma display comes with a 3-prong power plug; one prong is connected to the grounding wire. If you have only a 2-hole receptacle, you will need to have it replaced. Contact your dealer for more information.

- Have the plasma display inspected and cleaned by your dealer at regular intervals.
- Pictures may become "burn-in" into the screen phosphors if the screen left on with same picture or pattern for extended periods of time. To ensure that the plasma display has a prolonged service life, be sure to use settings such as the screen orbiter or white screen settings. These settings will ensure that the same picture or pattern is not constantly displayed for long periods. (See P. E-42)
- High-precision technology has been used in the manufacture of the plasma display panel, in which the effective pixels exceeds 99.99%. However, please be aware, that fewer than 0.01% of the pixels may be missing or remain constantly lit.
- Some models are fitted with a radiator fan to prevent the plasma display's internal temperature from rising during operation. Be careful of the air emitted by the radiator fan, as it may be hot.
- Contact your dealer when causing a bad influence to the plasma display and other audio-visual equipment mutually.

  You may need to move your plasma display if it produces degraded pictures or noise due to electromagnetic radiation, or if the infrared remote control does not function properly.

- Pictures may not be displayed properly if you connect a non-standard PC to the RGB input terminal. In this case, contact your dealer for more information.
- The protective circuit, built into the display, automatically turns off the power if the display has a problem. In this case, you will see that the power indicator lamp flashes red or green.

Warning

If the power indicator lamp flashes red or green, this signifies that the display has developed a problem. When this happens, be sure to unplug from the receptacle to prevent fire or electric shock. Then contact your dealer.

- It is important to install the plasma display in a location close to a receptacle, and where the emergency stop button can be easily reached.

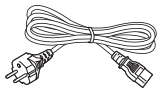
Note

- Cables for connecting the display to external equipment are not supplied. Contact your dealer for more information on these products.
- In order to facilitate the explanations, pictures and diagrams in this manual may differ slightly from the actual items.

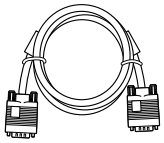
ACCESSORIES

Display Section

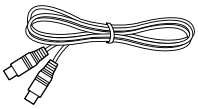
One power cable



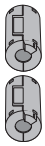
One System cable (picture)



One System cable (audio)



Two small ferrite cores



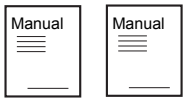
No.:ZCAT1518-0730
Mfr.:TDK

One big ferrite core

No.:SFT-72SN
Mfr.:TKK

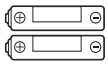
AV Selector Section

Two user's manuals

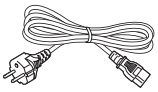


One remote control

Two AA batteries



One power cable



One big ferrite core

No.:SFT-72SN
Mfr.:TKK

INSTALLATION

To prevent the plasma display's internal components from overheating, make sure that the plasma display is installed in a well-ventilated location.

Be sure to use the optional stand, wall-mounting unit or the other mounting unit when installing the plasma display. Also, be sure that your dealer performs the installation.

See the appropriate instruction manual for additional information on the mounting hardware you select.

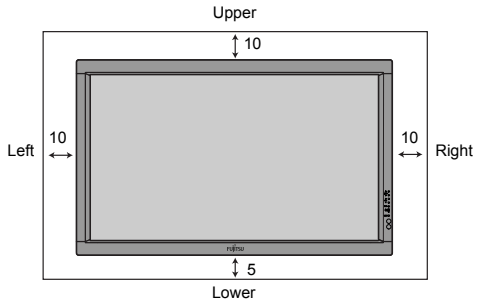
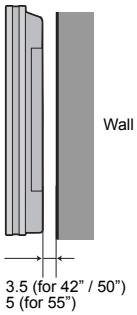
To prevent an accident and ensure safety in the event of an earthquake, fix the plasma display securely into the position as described below.

Use the diagram below to determine how much space is needed to ensure proper heat radiation. This is a minimum space requirement; therefore, provide at least as much space as indicated below.

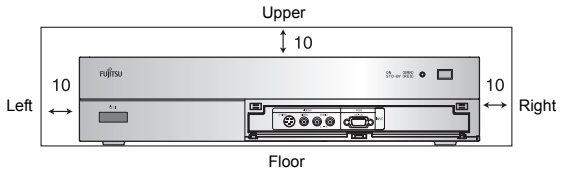
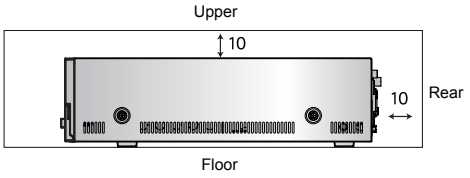
* Make sure that the plasma display is installed in a location where the temperature can be maintained between 0°C and 40°C (between 32°F and 104°F).
* Never attempt to tilt the plasma display sideways or backward.
* To prevent the power cord and other cables from being accidentally pulled, make sure that they run along the wall or through corners.
* To prevent accidents and ensure safety in the event of an earthquake, secure the plasma display to prevent it from tipping over.

Display Section

(cm) (cm)

Front	Side
	

AV Selector section

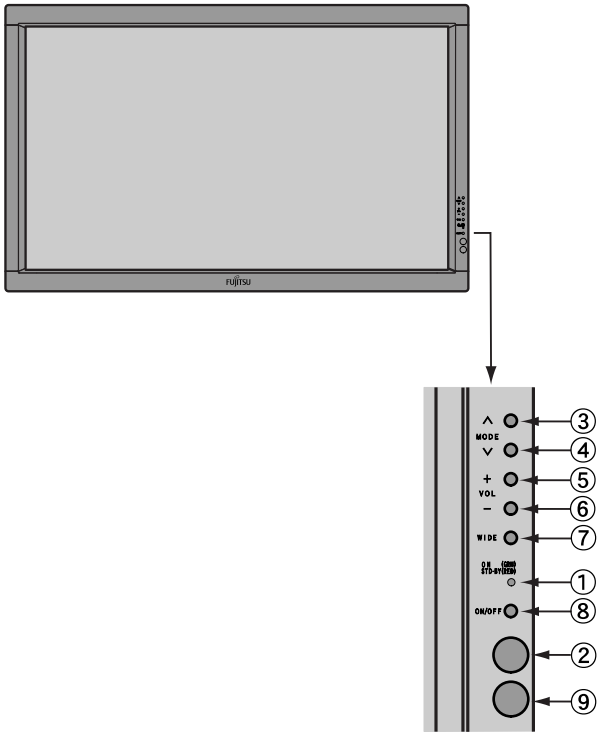
Front	Side
(cm) 	(cm) 

Note

- See P. E-45 for details on the options.
- The external view is meant to be a representation of the actual unit and is not to scale; therefore, it may differ from the actual shape and size of the product.
- Due to the fragile and highly precise equipment, it is very important to pack properly before transportation using only the packing materials provided.

PART NAMES AND FUNCTIONS

DISPLAY SECTION – FRONT



① Power indicator lamp

This lamp shows the state of the power supply.

Lit (red):	Stand-by state
Lit (green):	Power ON state
Flashing (red or green):	Malfunction (Flashes differently depending on the type of malfunction.)

② Remote control signal receiver

Receives signals from the remote control.

③ Input mode selector button ▲

④ Input mode selector button ▼

Switches the input modes (Video mode, RGB mode and TV mode).

⑤ Volume + button

⑥ Volume - button

Adjusts the audio volume.

⑦ Wide screen selector button

Switches the screen over to a desired wide screen.

⑧ ON/OFF button

Turns the power “ON” and “OFF (standby state)”.

⑨ Ambient Sensor

Detects the brightness of ambient light.

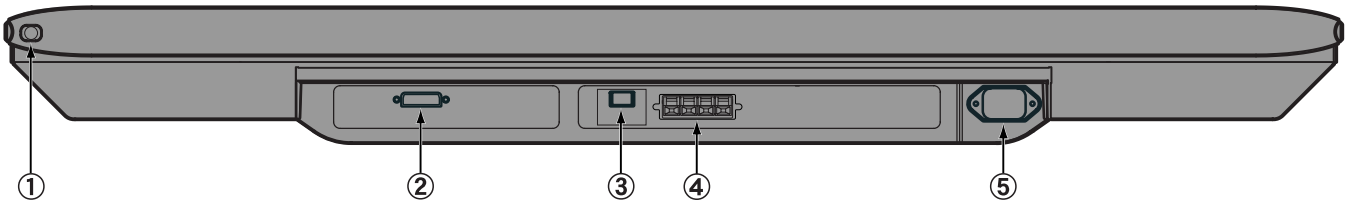
It is important not to obstruct it for full functionality of the feature.

Warning

If the power indicator lamp flashes red or green, this signifies that the display has developed a problem. When this happens, be sure to remove the power plug from the receptacle and contact your dealer. Leaving the display power ON can result in fire or electric shock.

PART NAMES AND FUNCTIONS (Continued)

DISPLAY SECTION – LOWER PART



① /I power switch

If this button is pressed when the power indicator lamp is off, the indicator lamp will light.

The power can be turned on and the standby mode selected by using the remote control or the control panel of the display.

If this button is pressed when the power indicator lamp is lit, the indicator lamp will go out.

*Power is still supplied to parts of the display even if the indicator lamp is off.

② Display input (picture) terminal

Connect this terminal to the display output (picture) terminal on the AV Selector using the special cable provided.

③ Display input (audio) terminal

Connect this terminal to the display output (audio) terminal on the AV Selector using the special cable provided.

④ External speaker output terminal (EXT SP)

Connect this terminal to the optionally available speaker.

When connecting a cable, attach a ferrite core to the cable. (See P. E-14.)

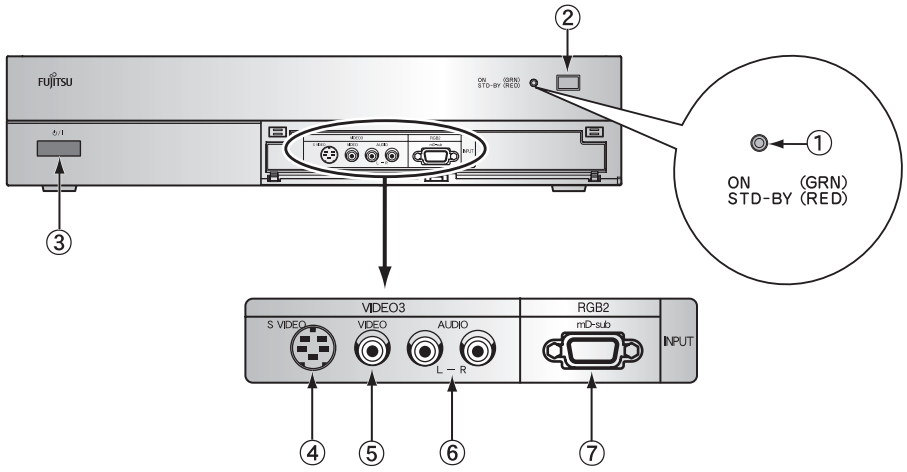
*See the speaker user's manual for more information.

⑤ Power input terminal

Connect this terminal to the power cord supplied with the display.

When connecting a cable, attach a ferrite core to the cable. (See P. E-14.)

AV SELECTOR SECTION – FRONT



① Power indicator lamp

This lamp shows the state of the power supply.

Lit (red): Stand-by

Lit (green): Power ON

Flashing (red or green): Malfunction (Flashes differently depending on the type of malfunction.)

② Remote control signal receiver

Receives signals from the remote control.

③ ⏻ /I power switch

If this button is pressed when the power indicator lamp is off, the indicator lamp will light.

The power can be turned on and the standby mode selected by using the remote control or the control panel of the display.

If this button is pressed when the power indicator lamp is lit, the indicator lamp will go out.

*Power is still supplied to parts even if the indicator lamp is off.

④ Video3, S-video input terminal *

Connect this terminal to the S-video output terminal of your video camera, etc.

⑤ Video3, video input terminal *

Connect this terminal to the video output terminal of your video camera, etc.

⑥ Audio input terminals (L/R)

These are the audio input terminals for the Video3 and RGB2 terminals.

Input the audio for the video to be seen here.

⑦ RGB2 input terminal

Connect this terminal to the output terminal of a PC, set-top box, game, etc.

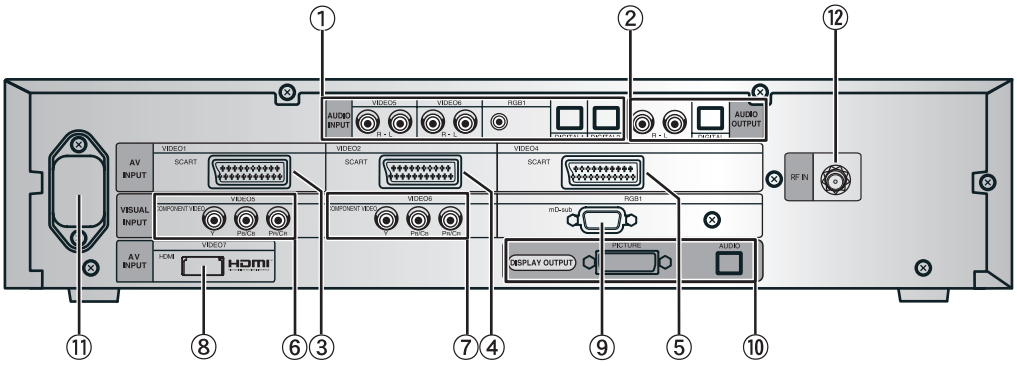
* On selecting the video input format

(See “SETTING THE INPUT TERMINALS” on P. E-40.)

Warning

If the power indicator lamp flashes red or green, this signifies that the display has developed a problem. When this happens, be sure to remove the power plug from the receptacle and contact your dealer. Leaving the display power ON can result in fire or electric shock.

AV SELECTOR SECTION – REAR



① Audio input terminals

Input audio through the terminals corresponding to the used video input terminals.

* The digital input terminals can be matched as desired with the remote control. (See P. E-29.)

② Audio output terminals

For use when the audio from an audio system (amplifier) is used.

③ Video1 input terminal

④ Video2 input terminal

⑤ Video4 input terminal

Connect this terminal to the SCART terminal of your VCR or DVD, etc.

* See “SETTING THE INPUT TERMINALS” on P. E-40.

⑥ Video5 input terminal

⑦ Video6 input terminal

Connect this terminal to the Component Video Output terminal of DVD recorder/player or satellite receiver.

⑧ Video7 input terminal

Connect this terminal to the HDMI output terminal of DVD recorder/player or other video source.

⑨ RGB1 input terminal

Connect this terminal to the output terminal of a PC, set-top box, game, etc.

⑩ Display output terminals (Picture/Audio)

Connect these terminals to the picture input terminal and audio input terminals on the display.

⑪ Power input terminal

Connect this terminal to the power cord supplied with the display.

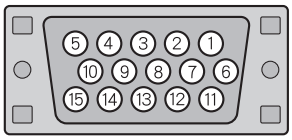
When connecting a cable, attach a ferrite core to the cable. (See P. E-14.)

⑫ Antenna input terminal

Please connect it to the antenna signal.

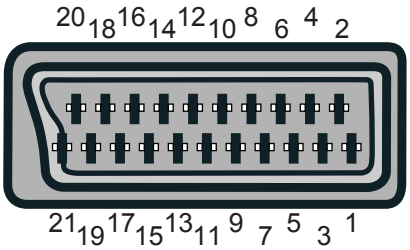
DESCRIPTION OF INPUT TERMINALS

mD-sub input terminal (RGB1, 2 INPUT/mD-sub)



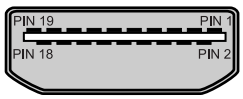
Pin No.	Input signal	Pin No.	Input signal
1	Red	9	—
2	Green	10	Ground
3	Blue	11	—
4	—	12	—
5	Ground	13	Horizontal synchronization
6	Ground	14	Vertical synchronization
7	Ground	15	—
8	Ground	Frame	Ground

SCART terminal (Video1, 2, 4)



Pin No.	Input Signal	Pin No.	Input Signal	Pin No.	Input Signal
1	—	8	—	15	Red/chrominance
2	Right audio	9	Green ground	16	—
3	—	10	—	17	—
4	Audio ground	11	Green	18	Composite video ground
5	Blue ground	12	—	19	—
6	Left audio	13	Red ground	20	Composite video/Y
7	Blue	14	—	21	Ground

HDMI input terminal (VIDEO7)



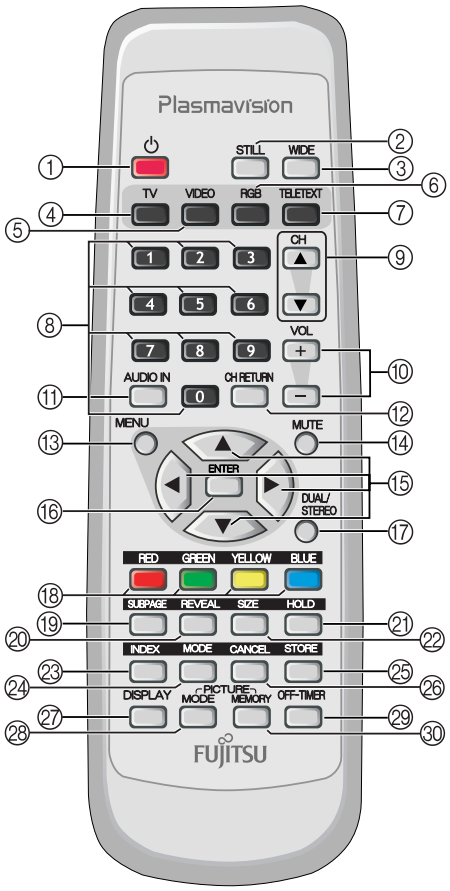
Pin No.	Input signal	Pin No.	Input signal
1	T.M.D.S. Data2+	11	T.M.D.S. Clock Shield
2	T.M.D.S. Data2 Shield	12	T.M.D.S. Clock–
3	T.M.D.S. Data2–	13	CEC
4	T.M.D.S. Data1+	14	Reserve
5	T.M.D.S. Data1 Shield	15	DDC Clock
6	T.M.D.S. Data1–	16	DDC Data
7	T.M.D.S. Data0+	17	Ground (for +5V)
8	T.M.D.S. Data0 Shield	18	+5V Power
9	T.M.D.S. Data0–	19	Hot Plug Detect
10	T.M.D.S. Clock+	Frame	FG

HDMI, the HDMI logo and High-Definition Multimedia interface are trademarks or registered trademarks of HDMI Licensing LCC.

PART NAMES AND FUNCTIONS (Continued)

REMOTE CONTROL

For details, see page ➔.



① **(POWER button) ➔ E-24**

Switches between Power On and Standby.

② **(STILL button) ➔ E-29**

Displays the screen being watched as the still picture. To return to normal, press this button once again.

③ **(WIDE button) ➔ E-30**

Switches the screen size.

④ **(TV input mode selector button) ➔ E-26**

Press this button to watch terrestrial broadcastings.

⑤ **(Video input mode selector button) ➔ E-28**

Press this button to switch through VIDEO1 to VIDEO7.

⑥ **(RGB input mode selector button) ➔ E-28**

Press this button to switch through RGB1 to RGB2.

⑦ **(TELETEXT input mode selector button) ➔ E-27**

Press this button to switch to the teletext broadcastings. (selectable only when watching the TV.)

⑧ **0 – 9 (Number buttons) ➔ E-26**

Use these buttons for the Program No. selection directly.
In the teletext broadcastings, input the 3 digits for the required teletext page to change the page.

⑨ **(Channel Up/Down buttons) ➔ E-26**

Press these buttons to select the preset programs.
Use these buttons to scroll through a page in the teletext broadcasting.

⑩ **(Volume adjustment buttons) ➔ E-25**

Press these buttons to adjust the volume.

⑪ **(AUDIO IN button) ➔ E-29**

Press this button to select the audio input.

⑫ **(Channel Return button) ➔ E-26**

Returns to the previous Program No. and input mode immediately.

⑬ **(MENU button) ➔ E-32–E-44**

Press this button to display the menu screen for adjusting the picture and/or the audio.

⑭ **(MUTE button) ➔ E-25**

Temporarily mutes the audio.
To return the audio to normal, press this button once again, or press the VOL (+) does the VOL (–) work also.

⑮ **(Adjustment buttons) ➔ E-32–E-44**

Use these buttons to select the item or adjust the value in the Menu screen.
Use these buttons to scroll through the pages and switch among the LIST pages in the teletext broadcasting. (Only ◀ ▶ are used when switching LIST pages.)

⑯ ENTER **(ENTER button) ➔ E-32–E-44**

Press this button to fix the entry in the ADJUSTMENT MENU.

⑰ DUAL/STEREO **(DUAL/STEREO button) ➔ E-29**

Press this button to select the audio mode for stereo/dual-channel audio broadcasting.

⑱ RED GREEN YELLOW BLUE **(COLOR button) ➔ E-27**

In the teletext broadcasting, press these buttons to switch through the pages stored to each of the four colors in the LIST mode. Other than the LIST mode, these buttons can also be used for the colored option selected from the four teletext new options displayed at the bottom of the screen.

⑲ SUBPAGE **(SUBPAGE button)**

Press this button to display the SUBPAGE.

⑳ REVEAL **(REVEAL button)**

Press this button to display hidden text (such as the answers to quizzes ,etc.).

㉑ HOLD **(HOLD button)**

Press this button to hold the transmission of the teletext program you are currently watching.

㉒ SIZE **(SIZE button)**

Press this button to change the size of the current watching page.

㉓ INDEX **(INDEX button)**

Press this button to return to the INDEX page.

㉔ MODE **(MODE button)**

Switches to the LIST mode. Press this button once again to return to the current mode.

㉕ STORE **(STORE button) ➔ E-27**

In LIST mode, saves the current display to the Favorites page.

㉖ CANCEL **(CANCEL button)**

Press this button to watch the CANCEL page.

Press it once again to return to the teletext broadcasting you were watching before you pressed CANCEL.

㉗ DISPLAY **(DISPLAY button) ➔ E-29**

Press this button to display the Program No., input mode, and screen size status. The status is displayed for about five seconds.

㉘ PICTURE MODE **(PICTURE MODE button) ➔ E-29**

Use this button to switch the Picture Mode.

㉙ OFF-TIMER **(OFF-TIMER) ➔ E-29**

Use this button to specify the length of time until the power turns off (stand-by state) after the button is pressed.

㉚ PICTURE MEMORY **(PICTURE MEMORY button) ➔ E-29**

Press this button to access the Picture Memory.

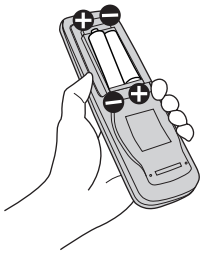
Note

• Functions may not be available with some models and some device options.

USING THE REMOTE CONTROL

PUTTING BATTERIES IN THE REMOTE CONTROL

(1) To remove the cover, slide it outwards while pressing it down.



(2) Place two AA batteries in the remote control. Make sure that the batteries are properly oriented.

(3) Close the cover until it snaps into place.

PRECAUTIONS

To prevent malfunction, be sure not to apply any form of severe shock to the remote control.

To prevent malfunction or deformation, be sure not to allow the remote control to become wet; also, keep it away from hot locations or heating equipment.

Be sure not to clean the remote control using a cloth dampened in any volatile solvent, such as benzene or thinner.

CAUTION

It is very important to use replacement batteries of the same type as the originally used. Do not use rechargeable batteries (Ni-Cd, etc.).

When disposing of used batteries, please comply with governmental regulations or environmental public institution's rules that apply in your country/area.

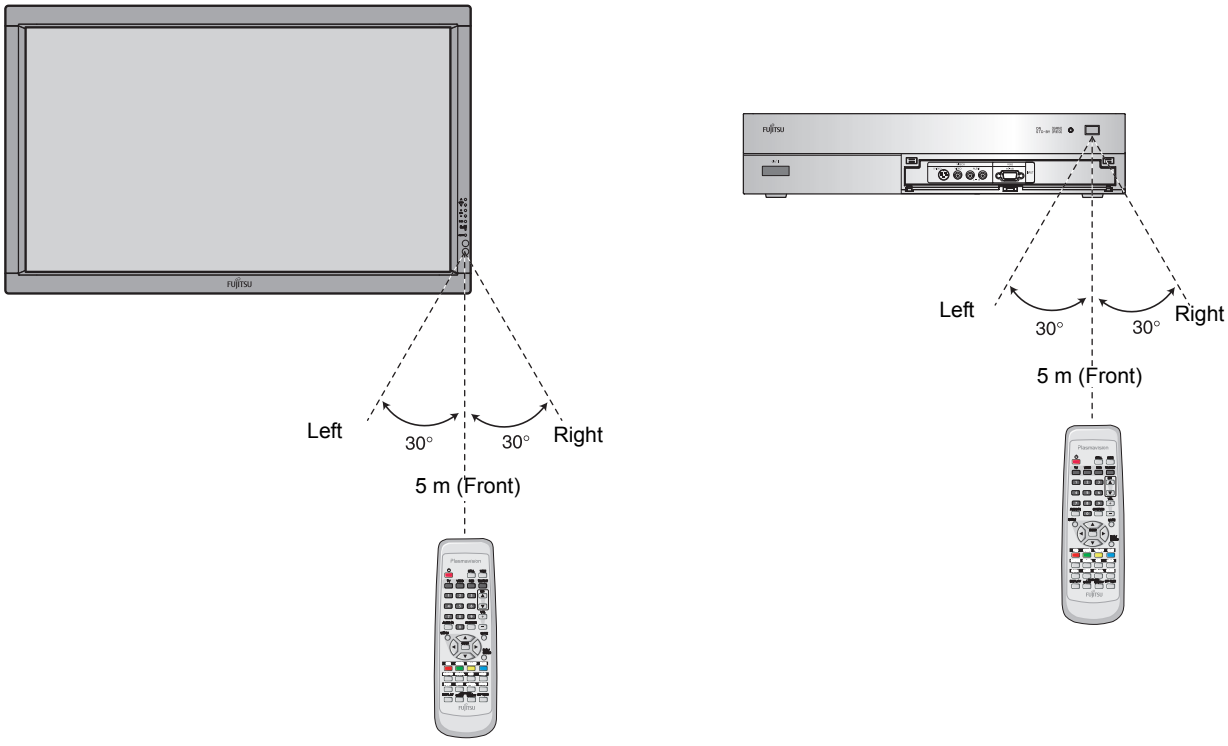
Note

The remote control will not function properly if the batteries are dead. Be sure to replace them as needed.

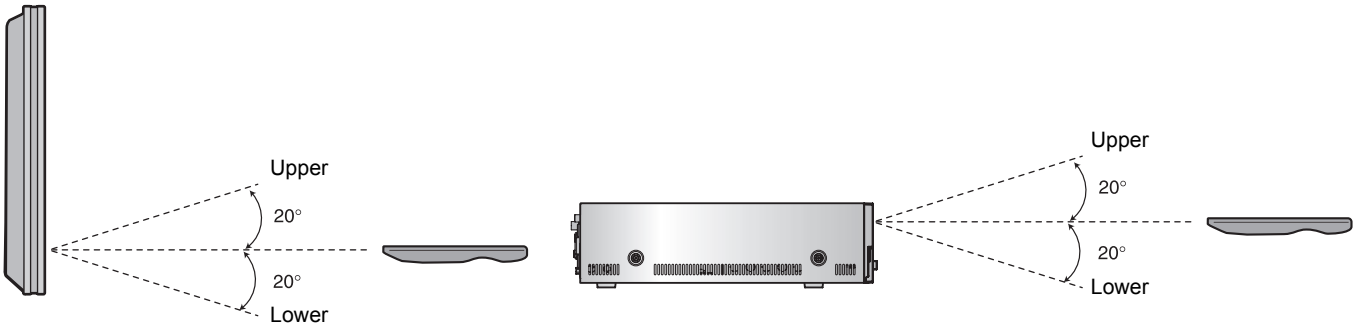
EFFECTIVE RANGE FOR THE REMOTE CONTROL

Point the remote control at the display's signal receiver when using it.

Make sure that there are no obstacles between the remote control and the display's signal receiver.



Display – front



Display – side

Note

The remote control may not function properly if you use a high-frequency fluorescent lamp. If you experience problems, move the lamp or use the remote control from a different position.

Do not use rechargeable batteries (Ni-Cd, etc).

CONNECTING THE DISPLAY TO EXTERNAL EQUIPMENT

Be sure to turn OFF the power to the display and external equipment before making any connections.

No cables are supplied with the display for connection to external equipment. The type of cable to be used varies depending on the PC model. Contact your dealer for more information.

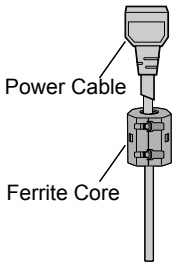
Carefully check the terminals for position and type before making any connections.

Loose connectors can result in picture or color problems. Make sure that all connectors are securely inserted into their terminals.

These ferrite cores are used to attenuate undesired signals. Attach them correctly as shown in the following illustrations.

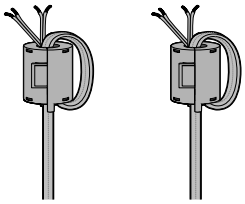
Two big ferrite cores (For Display and AV SELECTOR)

When connecting a cable to the power input terminal attach one of these ferrite cores to the cable near the terminal.

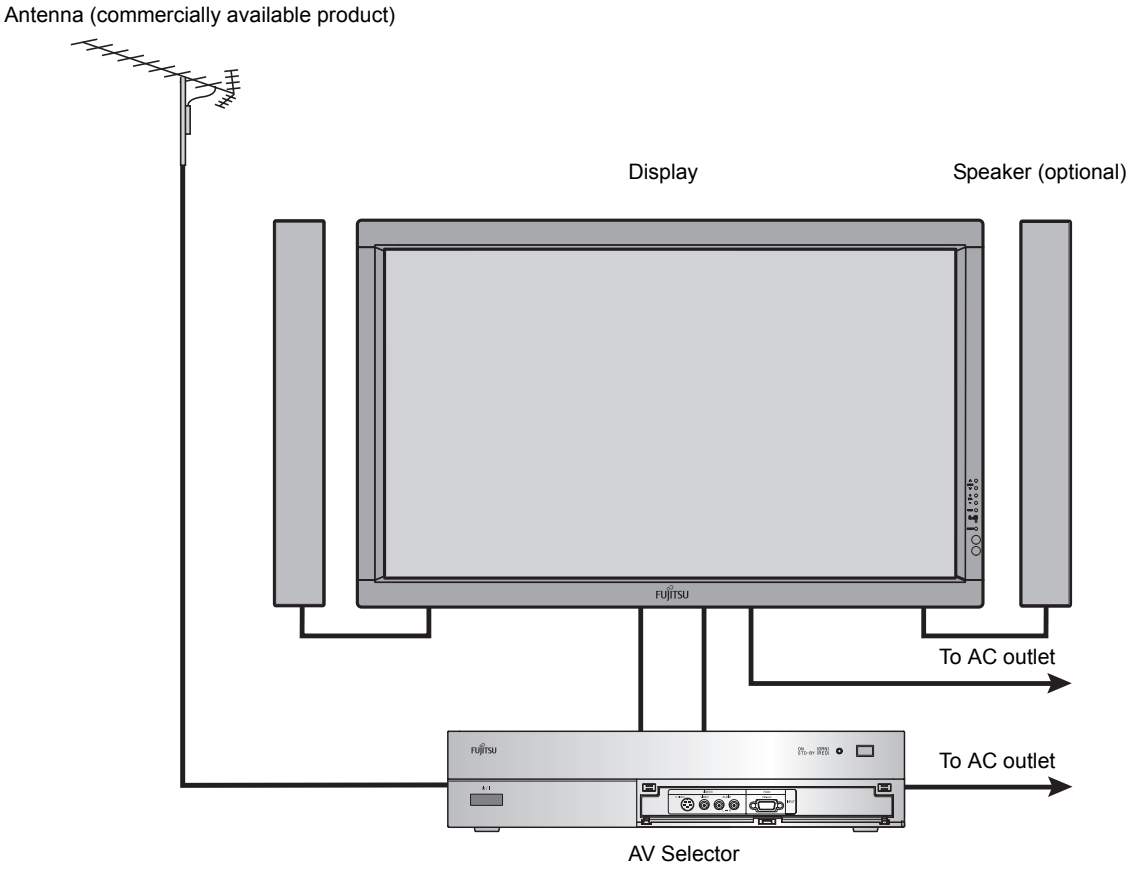


Two small ferrite cores

When connecting a cable to the external speaker output terminal, attach a ferrite core to the cable near the terminal as illustrated on the right.



BASIC SYSTEM CONNECTIONS



1. Connect the following items to the AV Selector and the display

(1) AV Selector and display

Connect these two with the provided system connection cable. (For details, see page E-16.)

(2) Antenna line

See page E-17 for further details.

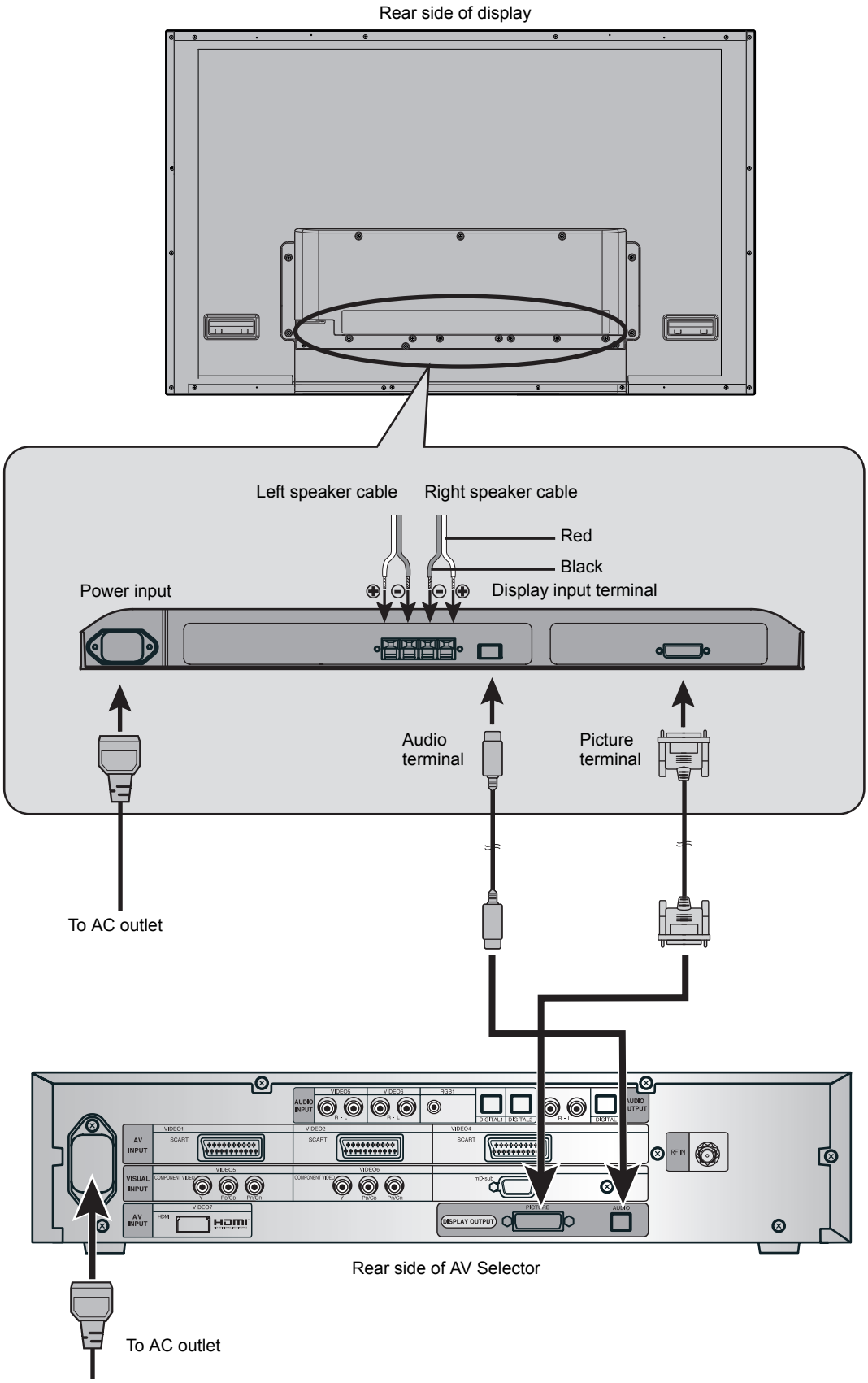
(3) Speakers

For how to connect speakers, see the instructions provided with the speakers.

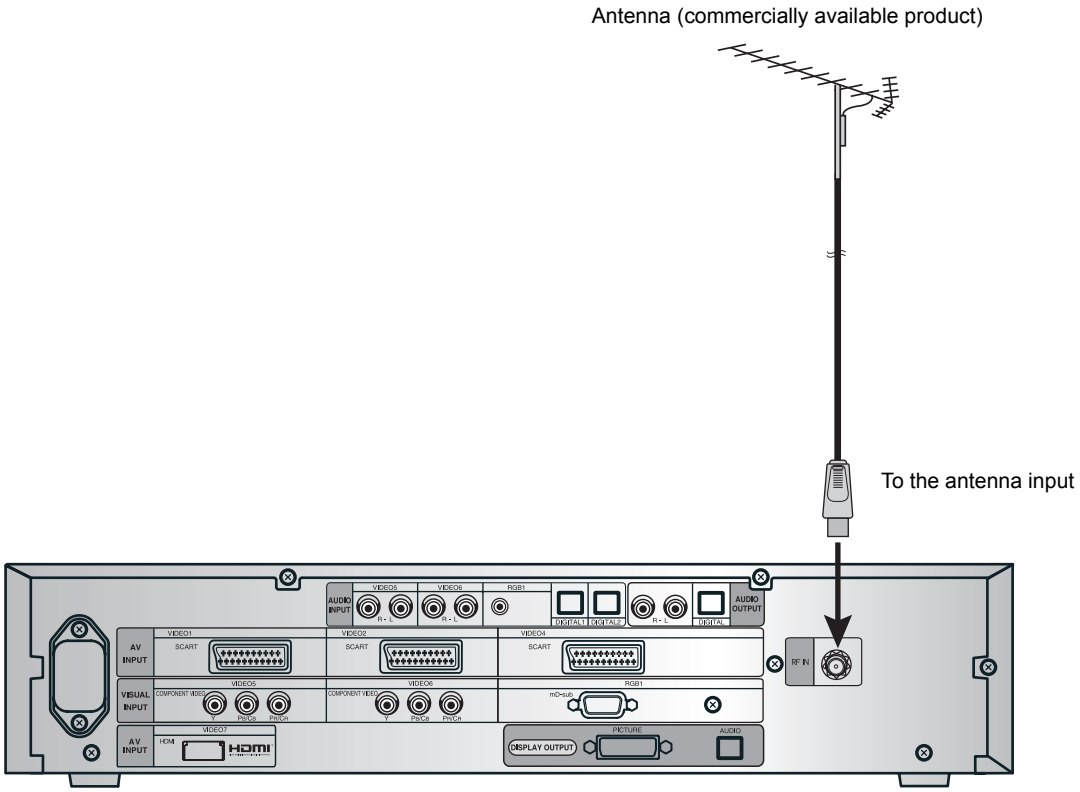
2. Connecting the power cord

• Connect the power plug of the display and AV Selector power cords to a grounded 3-pin outlet.

CONNECTING THE DISPLAY AND THE AV SELECTOR



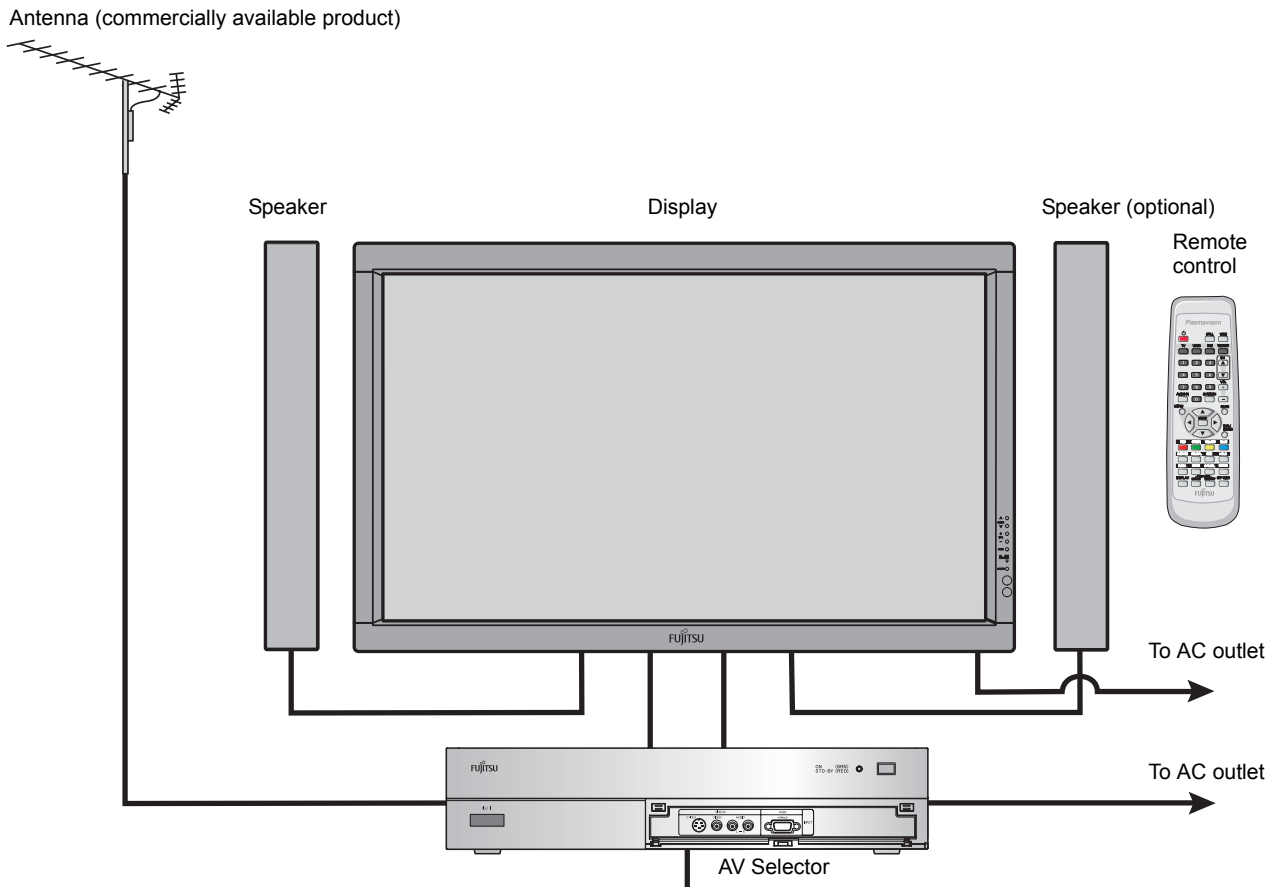
CONNECTING THE ANTENNA



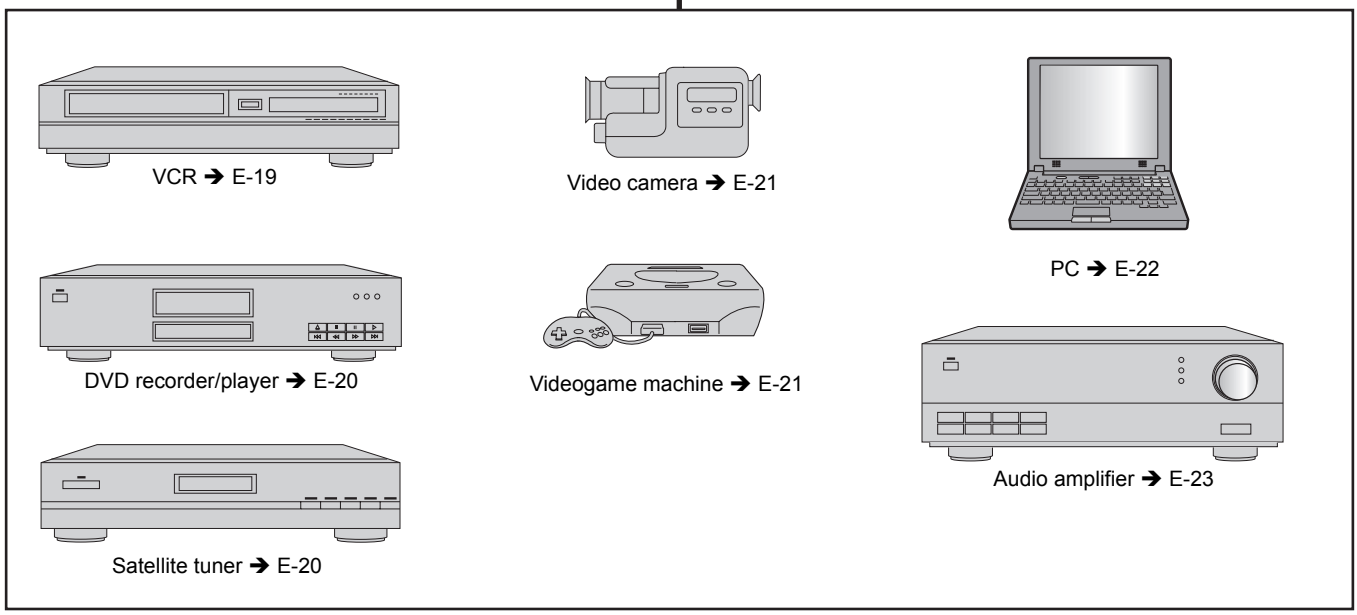
AV Selector rear panel

- Connects to the antenna input terminal on the AV Selector rear panel.
- Please enquire with your local teletext broadcasting company if you want to receive teletext broadcasts.

EXAMPLE OF CONNECTION TO EXTERNAL COMPONENTS

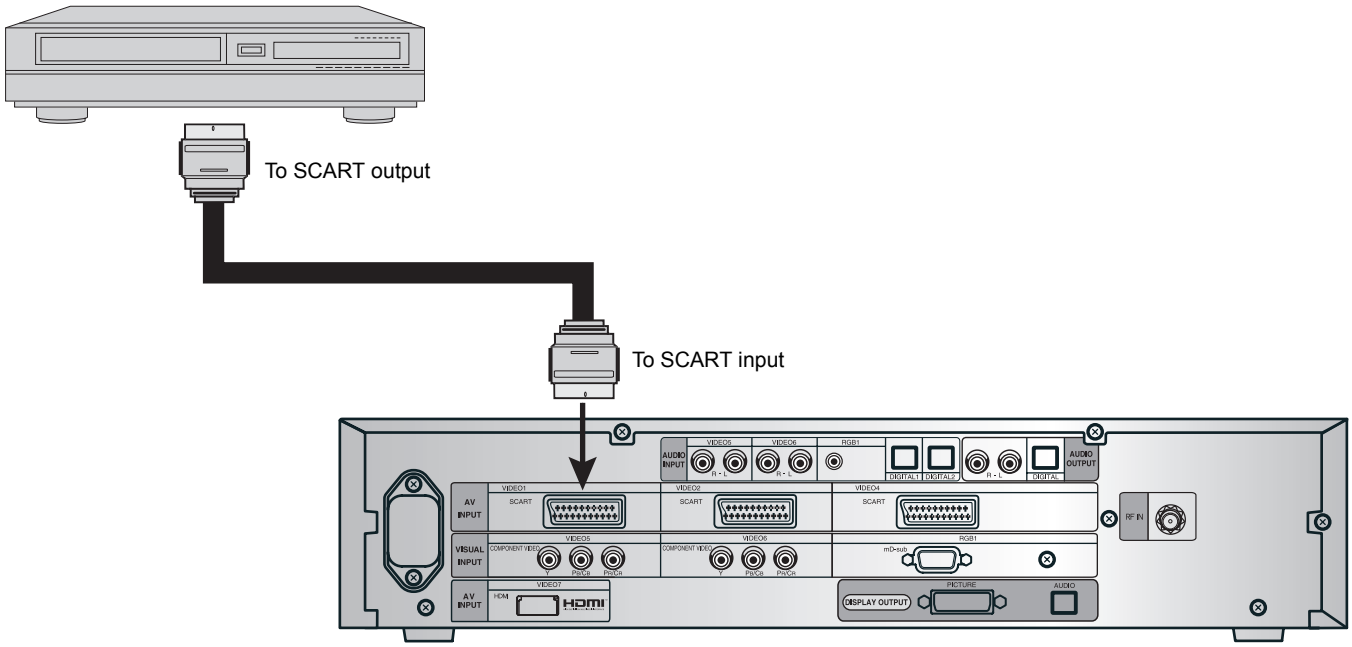


VCR or other external components See P. ➔



VCR

• Connect the video signal cable to SCART terminal.



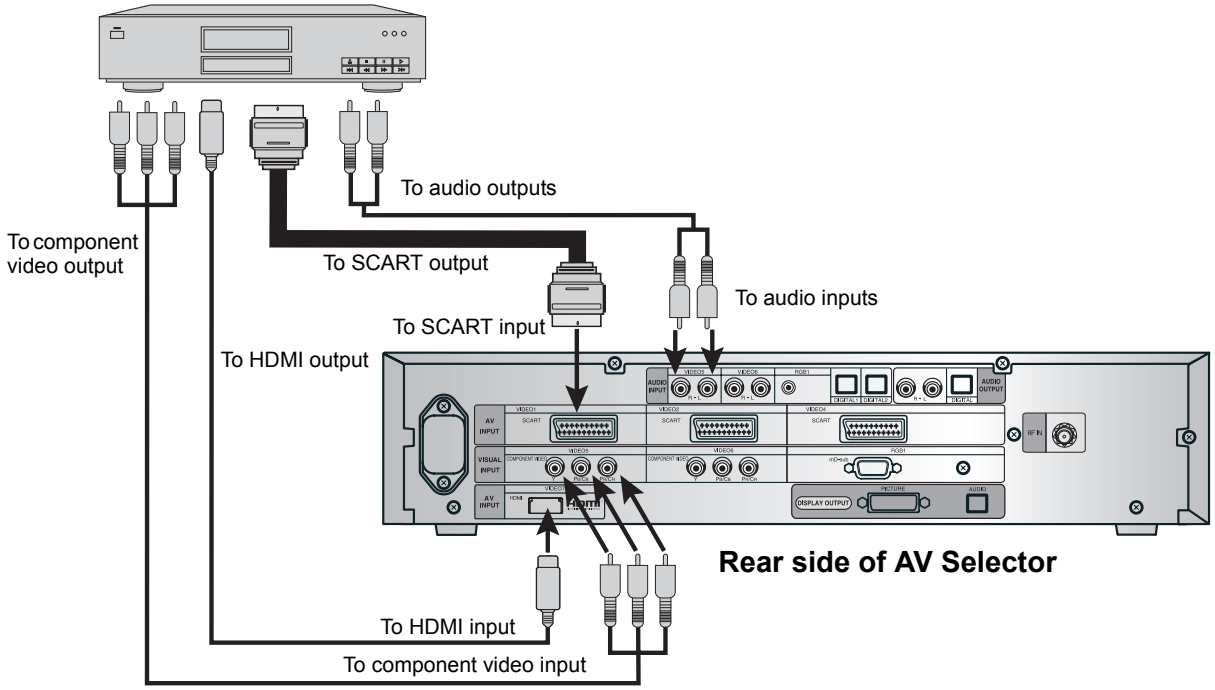
AV Selector rear panel

Note

- Unplug the power cord from the AC outlet before you connect external components.
- Also refer to the instructions for the component to be connected.
- When inputting audio, connect to the terminals corresponding to the used video input or RGB input.

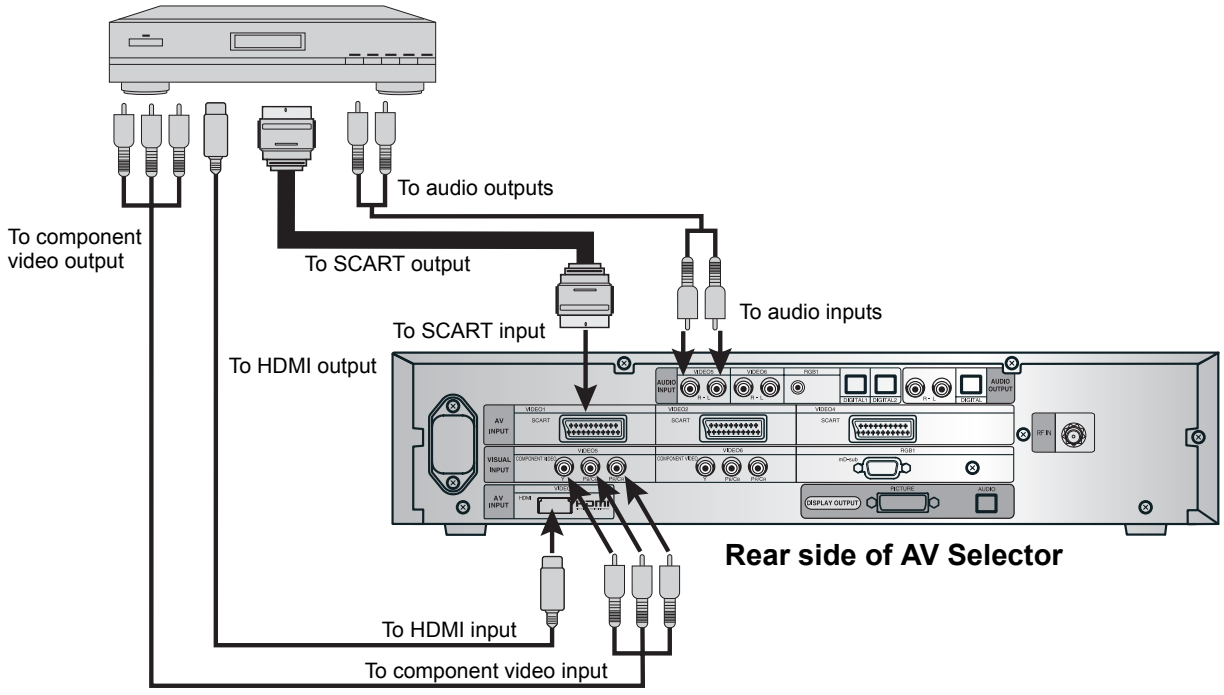
DVD RECORDER/PLAYER

- Connect the video signal cable to the component video input terminal, the HDMI input terminal or the SCART terminal.
- If the component to be connected is equipped with HDMI output terminal or the component video output terminal, connection to either of these terminals is recommended. (If the HDMI output is connected, an Audio signal cable does not need to be connected.)



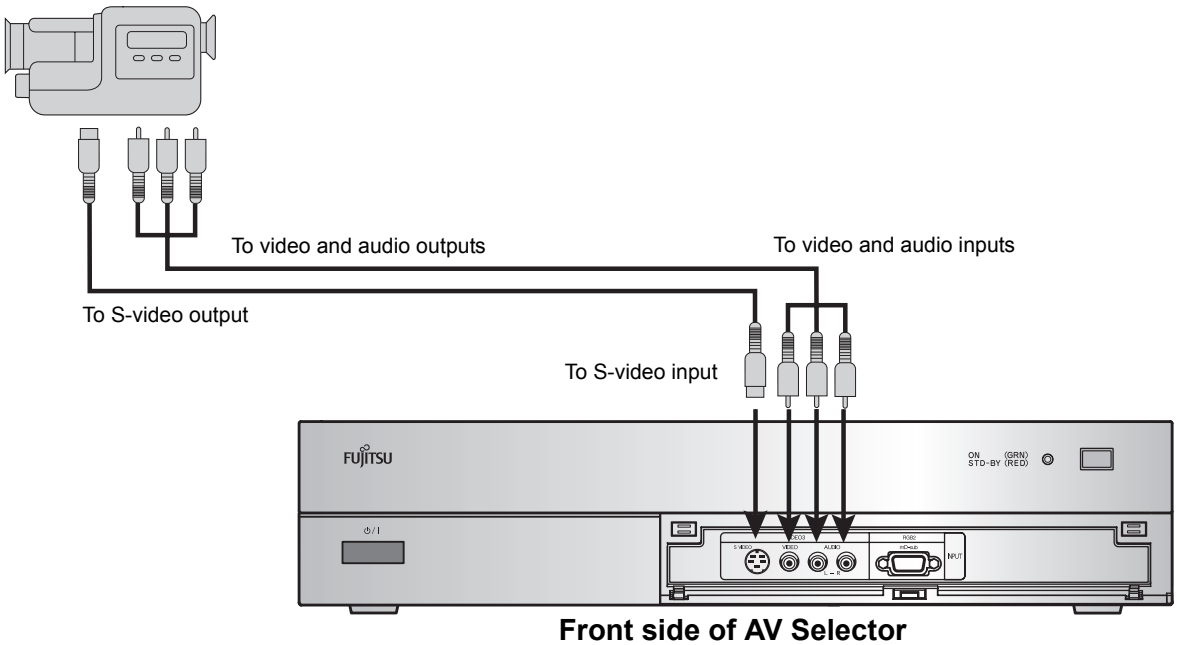
SATELLITE TUNER

- Connect the video signal cable to the component video input terminal, the HDMI input terminal or the SCART terminal.
- If the component to be connected is equipped with HDMI output terminal or the component video output terminal, connection to either of these terminals is recommended. (If the HDMI output is connected, an Audio signal cable does not need to be connected.)



VIDEO CAMERA

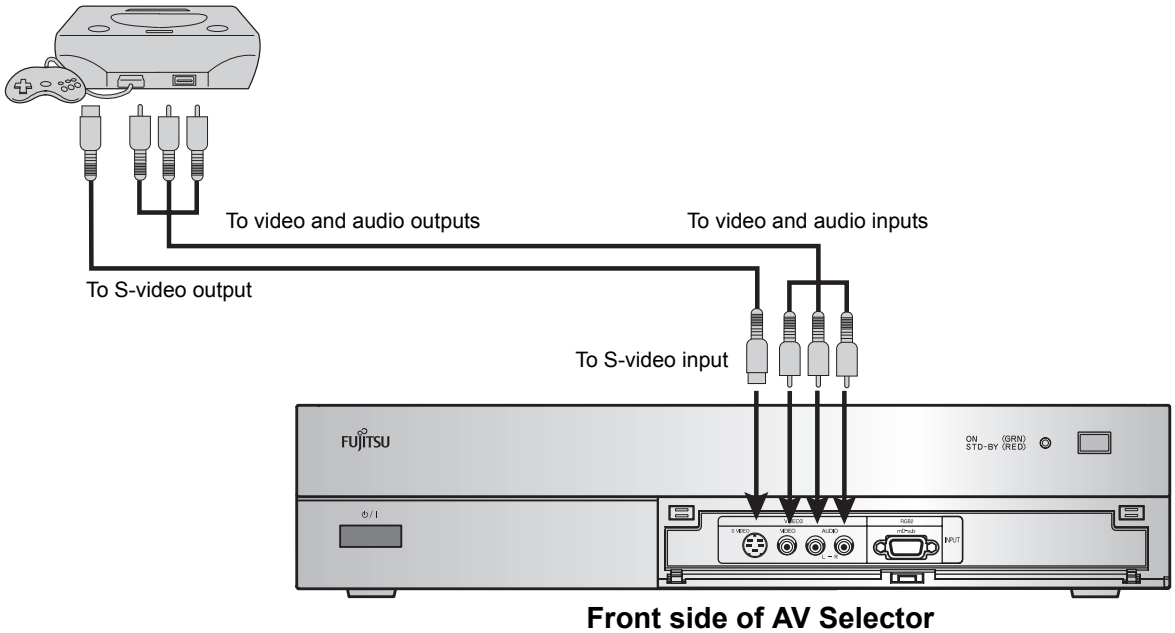
- A video camera can conveniently be connected to the Video 3 input on the front side.
- Connect the video signal cable to either the S-video input terminal or the video input terminal.
- If the unit to be connected is equipped with S-video output terminal, it is recommended to connect to the S-video terminal.



Front side of AV Selector

VIDEOGAME MACHINE

- As the connecting cable differs with videogame machines, please consult the instructions for your videogame machine.
- Connect the video signal cable to either the S-video input terminal or the video input terminal.
- Ensure that the same image (pattern) is not displayed on the screen for an extended period. If the same image is displayed on the screen for an extended period, the brightness of that part of the screen may change and image burn-in may leave an after-image on the screen.
- If the videogame machine to be connected is equipped with S-video output terminal, it is recommended to connect to the S-video terminal.



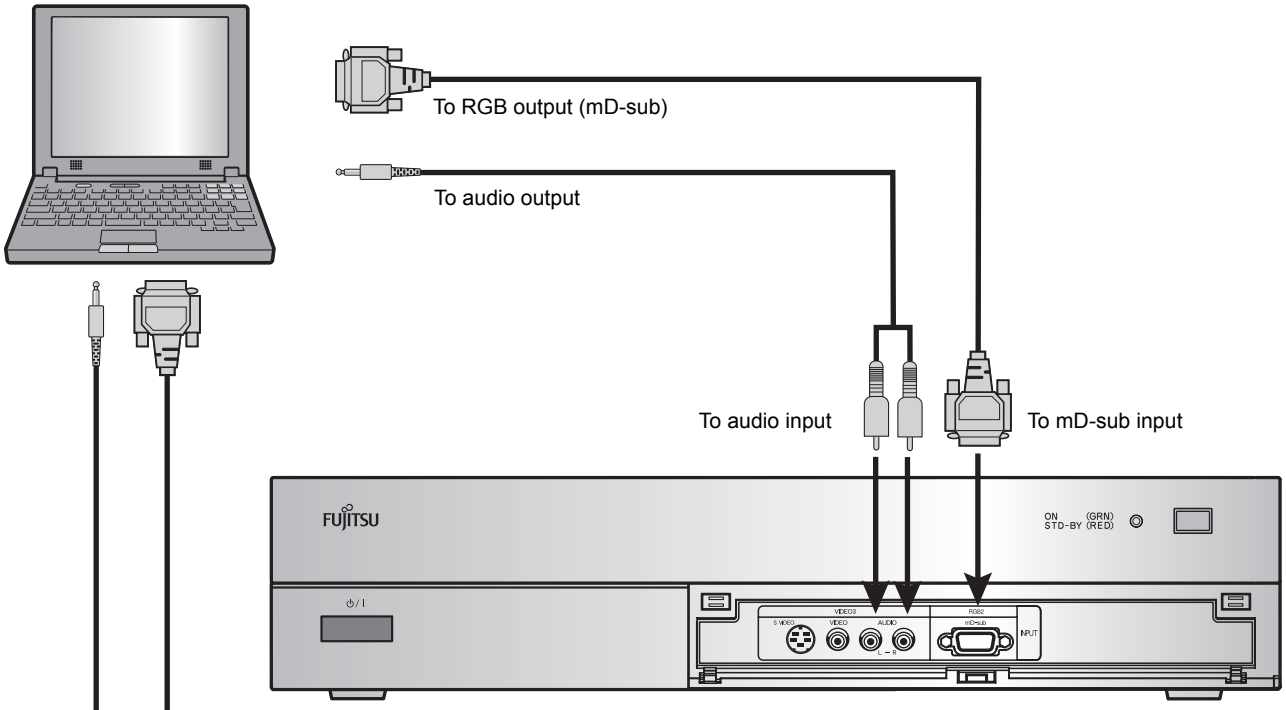
Front side of AV Selector

Note

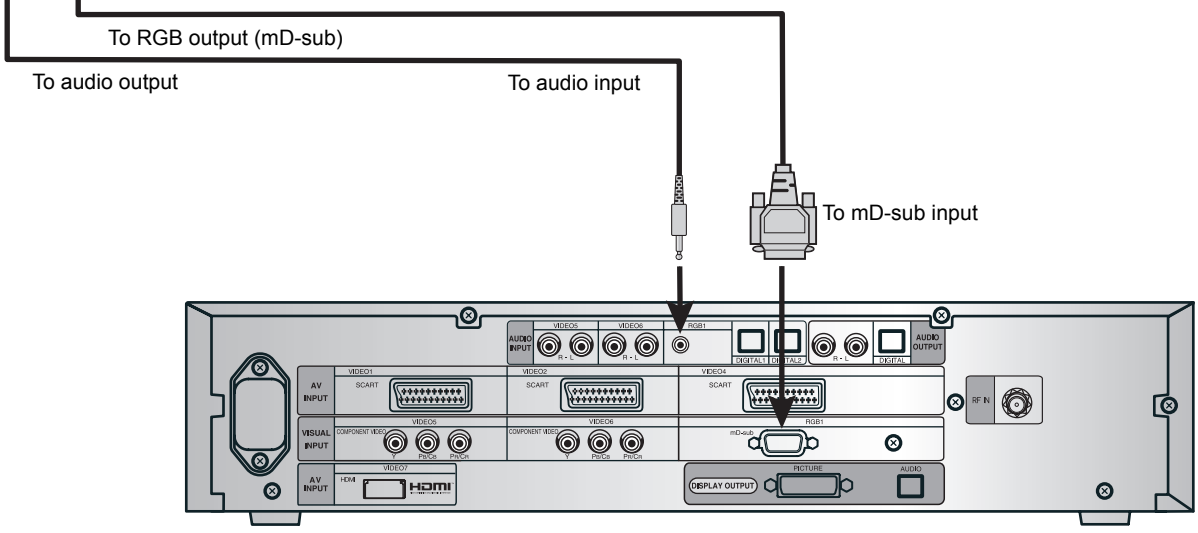
- Unplug the power cord from the AC outlet before you connect external components.
- Also refer to the instructions for the component to be connected.
- When inputting audio, connect to the terminals corresponding to the used video input or RGB input.

PC

- As the cable for connecting a PC differs with the PC model, please consult your dealer for information on the right cable to purchase.
- The PC can be connected to either the front side or the rear side, whichever is most convenient.



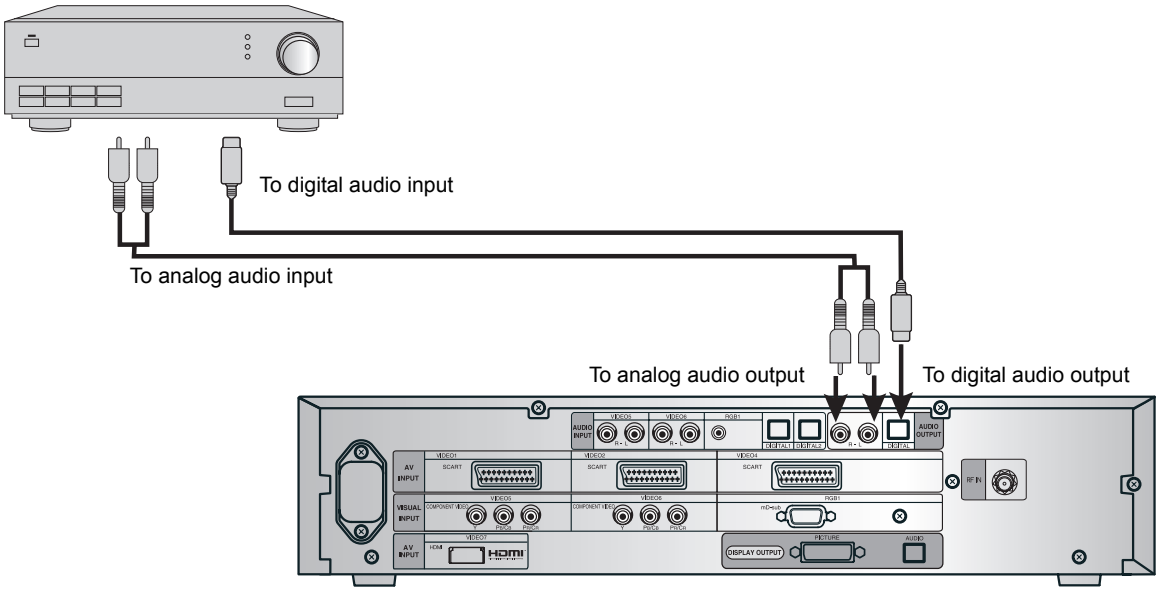
When connecting to the front side of the AV Selector



When connecting to the rear side of the AV Selector

WHEN OUTPUTTING AUDIO SIGNALS TO AN AUDIO AMPLIFIER

- Connect the audio signal cables to the digital output and the analog audio output terminals.
  * The signal input as analog input is output as analog audio and digital audio.
  * The signal input as digital input is output as digital audio. The signal input as digital input is not output as analog audio.
  * The digital audio input terminal on the display complies with a sampling frequency of 48 kHz.
    In the case of outputs with another frequency, connect to an audio system (amplifier)*.



AV Selector rear panel

Note

- Unplug the power cord from the AC outlet before you connect external components.
- Also refer to the instructions for the component to be connected.
- When inputting audio, connect to the terminals corresponding to the used video input or RGB input.

TURNING THE POWER ON AND STAND-BY

* You can also use the buttons on the display's control panel to perform these steps.

1 **Press OFF/ON ⏻/I to the left at the bottom of the display and ⏻/I to the left at the bottom of the AV Selector to the STD-BY state.**

The power lamp lights up.

2 **Press ⏻ on the remote control.**

The color of the power lamp changes from "Red" to "Green".

3 **Press TV, the button of the channel you want to watch, and then press VIDEO or RGB.**

Select TV or the picture mode to input.

4 **Press ⏻ when the power is ON.**

The color of the power lamp changes from "Green" to "Red" and the display goes into standby state.

ADJUSTING THE VOLUME

* You can also use the buttons on the display's control panel to perform these steps.

Adjusting the volume

Press VOL (+) to increase the volume.

Press VOL (−) to reduce the volume.

* Note that the volume level remains stored even when you turn OFF the power.

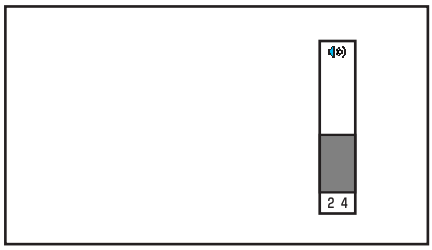
Muting the audio

Press MUTE .

The audio is removed.

Press again to restore the audio to the original level.

The mute mode can also be released by pressing the volume buttons.



When the volume adjustment button is pressed

Note

- Functions may not be available with some models and some device options.

SELECTING INPUT MODE

WATCHING A TV BROADCASTING

* You can also use the buttons on the display's control panel to perform these steps.

1 **Select the country.**

Select the country using the Auto Store function in the CHANNEL SETTING menu (see page E-40).

This enable the terrestrial broadcastings to be watched for selected country.

2 **Press TV.**

Available to watch the terrestrial broadcastings.

The last Program No. that you watched is received.

3 **Select the Program No.**

Press 0 – 9.

The program changes to the selected Program No.

Select your desired Program No. (0 to 99).

• Even if you press CH ▲ – CH ▼, the Program No. can be changed as shown below. (Available in TV mode)

CH ▲ : 0 → 1 → 2 → 3 ··· 97 → 98 → 99 →

CH ▼ : 99 → 98 → 97 ··· 3 → 2 → 1 → 0 →

* The program numbers set to skip over are not shown on the display. See page E-40 for details.

CH. Return

Press CH RETURN.

The program returns to the previous program, or Video mode or RGB mode that you watched.

* See pages E-40 for details on the other settings.

WATCHING A TELETEXT BROADCASTINGS

1 Display the TV program.

Press TV to set to TV mode.

2 Press TELETEXT.

This enables teletext broadcasts to be viewed.

(superimposed over the TV program)

The teletext broadcasting INDEX screen is received.

* Whenever TELETEXT is pressed, the screen switches between teletext screen superimposed over the TV program and teletext-only screen.

• Displays the teletext page program.

The teletext page program is displayed when 3 digit number by 0 – 9 and RED GREEN YELLOW BLUE ▲ ▼ ◀ ▶ is pressed.

• Storing and displaying favorite teletext programs.

1)Press MODE to select the LIST mode.

2) Press RED GREEN YELLOW or BLUE to select the color button for storing the teletext page program.

3) Press STORE for three seconds at least to store the displaying teletext program to the color button. (During the storing operation, the color button momentarily turns white.)

4) In the LIST mode, press RED GREEN YELLOW or BLUE to display the stored teletext page program.

* Press TV, VIDEO, or RGB to return to the other modes.

* See pages E-10 to E-11 for information on the other keys.

* There is no MENU WIDE DISPLAY STILL CH RETURN PICTURE MODE PICTURE MEMORY AUDIO IN DUAL/ STEREO OFF-TIMER function in the teletext broadcasting screen.

* If you have trouble at the receiving of the teletext broadcastings, consult with your local dealer or the teletext broadcasting.

SELECTING INPUT MODE (Continued)

VIDEO INPUT MODE

* You can also use the buttons on the display's control panel to perform these steps.

1 **Press VIDEO to select the input mode.**

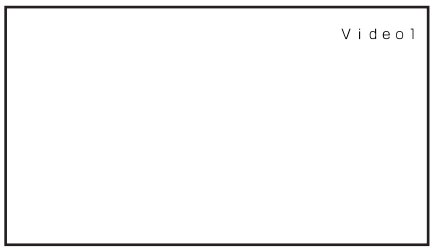
You can select from VIDEO 1 mode to VIDEO 7 mode.

The video modes corresponding to each input terminal are as follows.

- VIDEO1: SCART
- VIDEO2: SCART
- VIDEO3: Video, S-video
- VIDEO4: SCART
- VIDEO5: Component video
- VIDEO6: Component video
- VIDEO7: HDMI

* For selection of the input terminal, see "SETTING THE INPUT TERMINALS" on P. E-40.

* You can also change VIDEO mode by pressing 1 – 7 during "Video" indication on the screen by pressing VIDEO.



Video1 mode

RGB INPUT MODE

* You can also use the buttons on the display's control panel to perform these steps.

1 **Press RGB to select the input mode.**

You can select between the modes from RGB1 to RGB2.

The input terminal of each RGB mode is as follows.

- RGB1: mD-sub
- RGB2: mD-sub

* You can also change RGB mode by pressing 1 – 2 during "RGB" indication on the screen by pressing RGB.

RGB1 mode

OTHER BASIC OPERATIONS

CONVENIENT FUNCTIONS

Still Picture

Press STILL.

The currently viewed scene can be viewed as a still picture.

Convenient when you want to take a note, etc. Press again to return to the normal picture.

DISPLAY

Displaying on-screen information.

Press DISPLAY.

The channel or mode is indicated on the screen for 5 seconds.

Picture Mode

Press PICTURE MODE.

This button can be used to switch the picture mode.

In the picture mode, you can switch between the set status and the fine mode.

* For the picture mode settings, see “Setting Picture Mode (P. E-34)”.

Picture Memory

Press PICTURE MEMORY.

This button can be used to recall the settings of the picture memories 1 – 8. Each time this button is pressed, the setting changes as follows.

→Memory1→Memory2→Memory3→Memory4→Memory5→Memory6→Memory7→Memory8

* For the picture memory settings, see “Setting Picture Memory (P. E-35)”.

Audio In

Press AUDIO IN.

Switches the input audio. Each time this button is pressed, the input changes as follows.

[When other than HDMI input was selected]

→Analog Audio→Digital Audio1→Digital Audio2

[For HDMI]

→HDMI→Digital Audio1→Digital Audio2

* Digital audio input handles PCM only.

* The digital audio input terminal on the display complies with a sampling frequency of 48 kHz. In the case of outputs with another frequency, connect to an audio system (amplifier)*.

Dual channel switching

Press DUAL/ STEREO.

This function enables selection of the audio mode when there is a dual-channel broadcast. Each time this button is pressed, the mode is switched as shown in the figure below.

→ Dual-I → Dual-II → Stereo → Mono

Depending on the broadcast, this function may not be available.

OFF-timer

Press OFF-TIMER.

This can be used to set the time before the power is turned off (stand-by state). Each time this button is pressed, the setting changes as follows.

→ Off → 30 min. → 60min. → 90 min. → 120 min.

Note

- Functions may not be available with some models and some device options.

WATCHING PICTURES ON THE WIDE SCREEN

SWITCHING BETWEEN SCREEN SIZES

* You can also use the buttons on the display's control panel to perform these steps.

1 **Press WIDE.**

The currently selected mode will appear.

2 **Press WIDE to select a desired Screen Size.**

Each time you press WIDE, a different Screen Size appears. The sequences used are as follows:

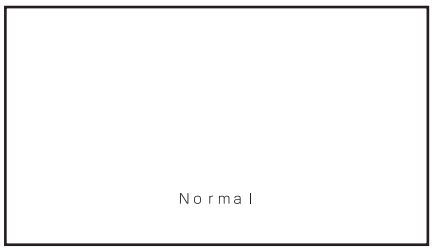
When you are in a Video input mode

→Normal→Wide1→Wide2→Zoom2→Zoom1→

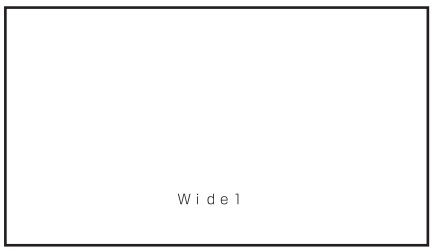
When you are in an RGB input mode

→Normal→Wide→Zoom→

* Depending on the type of signal, some aspects may not be selected.



Normal mode



Wide1 mode

Note

- Displaying a picture in a Normal mode for extended periods of time may cause phosphor burn-in.
- A variety of Screen Sizes are available with this display. Remember that if you select a mode with an aspect ratio (ratio of frame width to frame height) different from that of the TV program or video media, the pictures will appear differently than if you had selected a mode having the same aspect ratio.
- Showing a movie or similar premium event at a different aspect ratio from its original one at any event site, restaurant, or bar for profit-making purposes or for a public audience may constitute a copyright infringement.
  For films, try to select a mode having the same aspect ratio as the original picture; this enables the director's original intentions to be preserved.
- See P. E-36 for how to adjust the picture size and position.

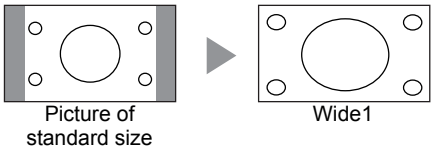
SCREEN SIZE

Normal (Video/RGB)

Displays pictures of normal size (i.e., a 4:3 aspect ratio).

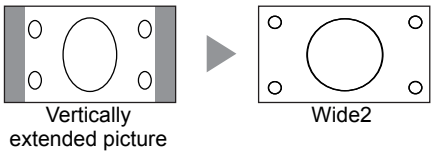
Wide1 (Video)

Displays natural-looking pictures of standard size on the wide screen.



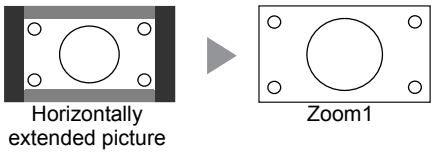
Wide2 (Video)/Wide (RGB)

Ideal for displaying vertically extended pictures such as squeezed pictures.



Zoom1 (Video)/Zoom (RGB)

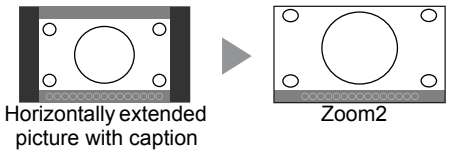
Enlarges horizontally extended pictures equally in all directions to maintain the aspect ratio constant.



Zoom2 (Video)

Reduces the height of horizontally extended pictures with captions, without eliminating the caption. Only the height of pictures is reduced, not the height of the caption.

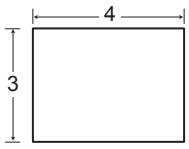
(Captions may not be easy to read, however, depending on the picture.)



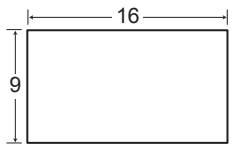
ASPECT RATIO

The following aspect ratios are available.

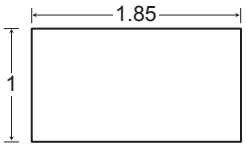
4:3 aspect ratio
(VHF/UHF broadcasting, BS broadcasting)



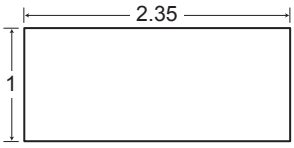
16:9 aspect ratio
(HDTV broadcasting)



1.85:1 aspect ratio
(Vista Vision size)



2.35:1 aspect ratio
(Cinema Scope size)



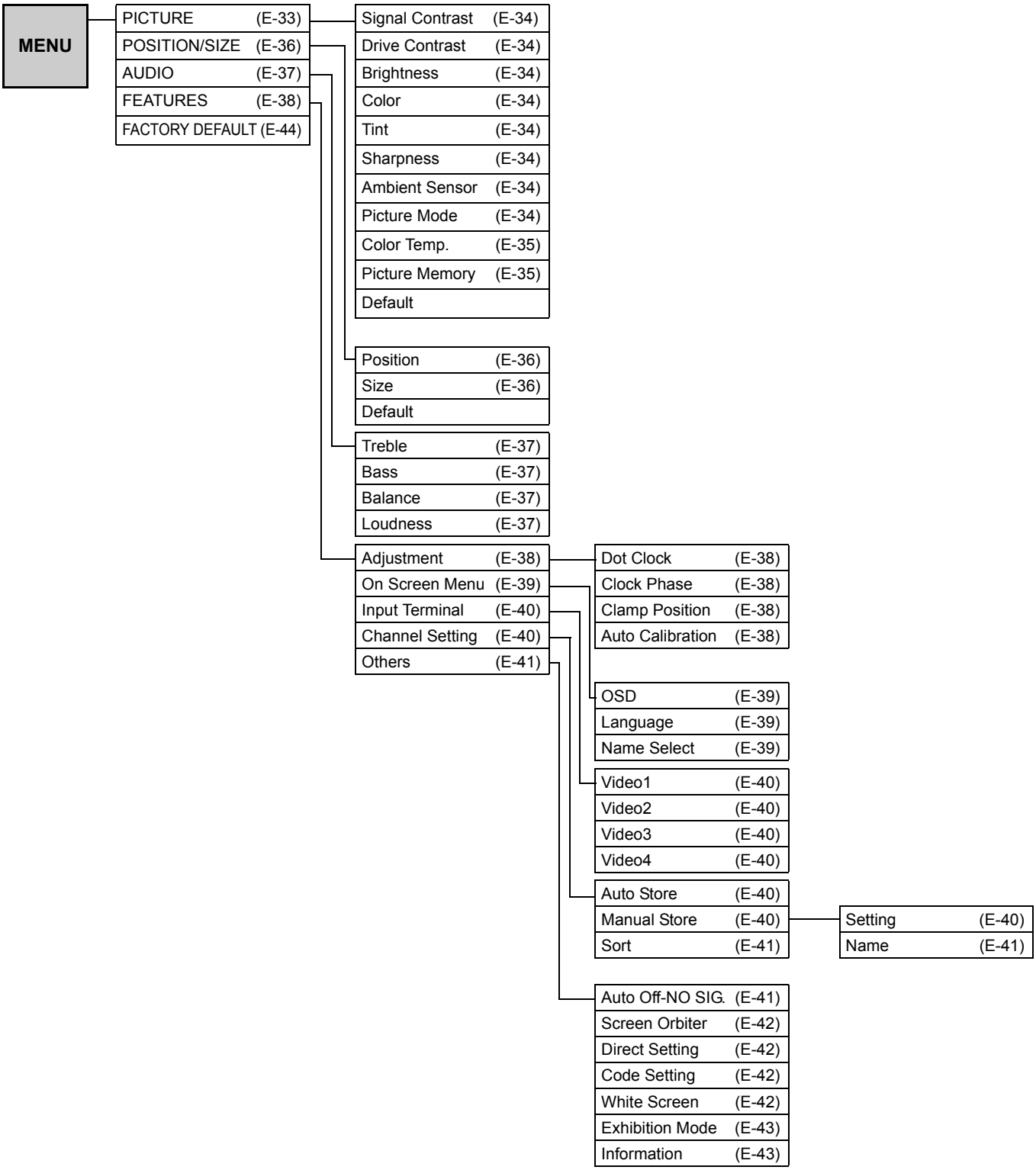
Note

You may find dark areas on top and at the bottom of the screen if you select one of the Zoom modes for media while using the Vista Vision or Cinema Scope size i.e., the sizes used frequently for picture software.

- Functions may not be available with some models and some device options.

ADJUSTMENT MENU

The numbers in parentheses ( ) indicate the reference page numbers.



Note

- Some type of signal can not be selected.

BASIC PROCEDURE OF ADJUSTMENT MENU OPERATIONS

• Below is shown the basic procedure to make changes to the options in the ADJUSTMENT MENU. (Ex.: adjusting tint setting (Tint))

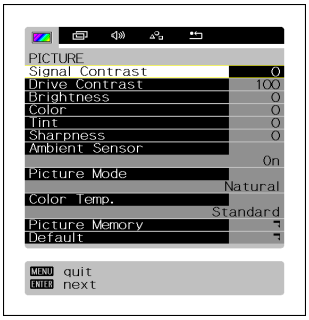
1 **Press MENU.**
The main menu screen will appear.

2 **Press ◁ or ▷ to select “PICTURE”.**

Each time you press ◁ or ▷, one of the available menus appears in the following sequence:

PICTURE ↔ POSITION/SIZE ↔ AUDIO ↔ FEATURES ↔ FACTORY DEFAULT

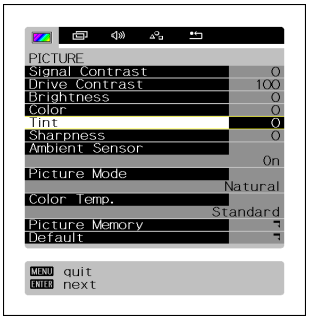
The PICTURE Menu screen will appear.



“PICTURE” selected in the main menu screen

3 **Press △ or ▽ to select “Tint”.**

4 **Press ENTER.**
The “Tint” adjustment screen will appear.



“Tint” selected in the PICTURE Menu screen

5 **Press ◁ or ▷ to change tint values.**
▷: More greenish colors

◁: More purplish colors

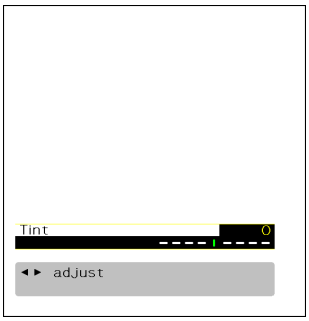
6 **Press ENTER to store.**

7 **Press MENU when you finish.**

* Repeat steps 3, 4, 5 and 6 when you wish to make changes to other options.

* When ENTER is pressed after you have selected “Default”, the settings are returned to those that were valid when you purchased the set.

* Press MENU to halt the operation in progress.



“Tint” adjustment screen

Note

• On-screen information disappears if you do not take any action for about 60 seconds.
• Functions may not be available with some models and some device options.
• The adjustment range varies with the display signal. You can adjust the display quality to the value you want within the adjustable range.

ADJUSTING THE PICTURE

• Picture-related items can be set and adjusted in the Picture Adjustment Screen. See BASIC PROCEDURE OF ADJUSTMENT MENU OPERATIONS on page E-33 for the basic operation procedures.

Adjusting the Signal Contrast

Press ⊙ to increase the input signal contrast.

Press ⊙ to reduce the input signal contrast.

Press ENTER to store.

Adjusting the Drive Contrast

Press ⊙ to raise the display's luminance level, and increase the contrast.

Press ⊙ to lower the display's luminance level, and reduce the contrast.

Press ENTER to store.

*If Ambient Sensor is ON, the change made by this adjustment may be difficult to be recognized in too bright or dark a place.

Adjusting the Brightness

Press ⊙ to increase the brightness.

Press ⊙ to reduce the brightness.

Press ENTER to store.

Adjusting Color

Press ⊙ to darken the color.

Press ⊙ to lighten the color.

Press ENTER to store.

Adjusting the Tint

Press ⊙ to change the tint to a more greenish color.

Press ⊙ to change the tint to a more purplish color.

Press ENTER to store.

Adjusting the Sharpness

Press ⊙ to sharpen the Sharpness.

Press ⊙ to soften the Sharpness.

Press ENTER to store.

Adjusting the Ambient Sensor

Automatically adjusts the Sharpness to an optimized level that matches the brightness of the surrounding area.

Each time ⊙ or ⊙ is pressed, the setting is switched.

On ↔ Off

Press ENTER to store.

Setting Picture Mode

Each time you press ⊙ or ⊙ , the available choices appear in the following sequence.

→ Natural ↔ Fine ↔ Effective ↔ Conventional ↔ Still ↔

Natural	Enables you to watch pictures with natural color tones and high picture clarity. This mode is suitable for watching movies or TV.
Fine	Best for watching movies in darkened rooms.
Effective	Best for watching TV in bright environments.
Conventional	Displays a screen approximating that of a conventional TV screen.
Still	Suitable for watching static images such as computer or still camera images.

Press ENTER to store.

Adjusting the Color Temp.

"Color Temperature" can be set.

Each time ⊕ or ⊕ is pressed, the color temperature mode is switched as shown below.

Warm → Standard → Cool

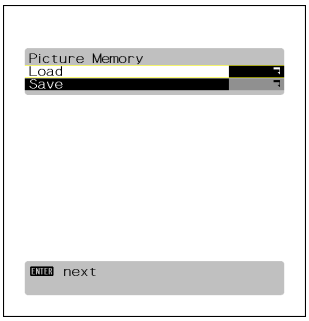
[Warm]: More reddish colors

[Cool]: More bluish colors

Press ENTER to store.

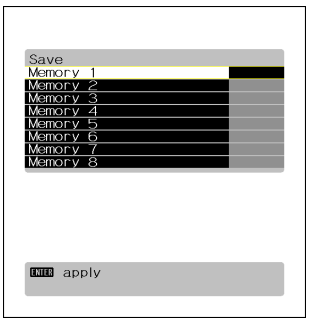
Setting Picture Memory

The adjustment status of eight groups of picture adjustment settings can be stored, enabling you to quickly switch to your desired group of settings for the picture you are planning to watch.



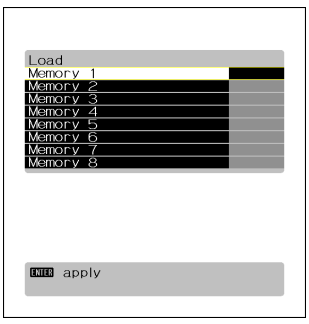
Picture Memory Selection Screen

[Save]: Use ◁ or ▷ to select Memory 1 - 8. If ENTER is pressed, the current picture adjustment values are stored to the selected Memory.



"Save" Selection Screen

[Load]: Use ◁ or ▷ to select Memory 1 - 8. When ENTER is pressed, the values becomes the picture adjustment values stored in the selected Memory.



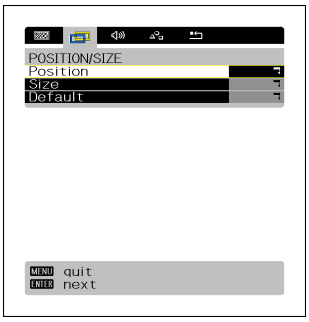
"Load" Selection Screen

Note

- The screen display disappears if there is no operation within approximately 60 seconds.
- Depending on the model or the optional devices, some of the functions may not be available.
- The adjustment range varies according to the display signals. Make adjustments to your preferred picture quality within the adjustment range.
- Depending on the type of signal, it may not be possible to make some of the settings or adjustments.

ADJUSTING SCREEN POSITION AND SIZE

- You can make changes to all screen adjustment options in the POSITION/SIZE Menu. See Page E-33 for the basic operation procedures.
- The changes you make will be stored for the selected input mode. Therefore, you need to select a desired input mode before making any changes.



POSITION/SIZE Menu screen

Adjusting Screen Position (Position)

Horizontal position (Horizontal)

: Moves screen to the right.

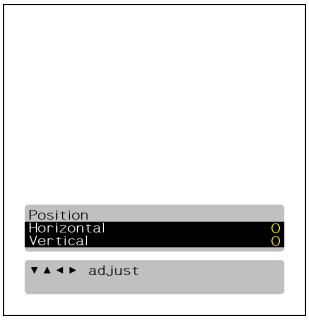
: Moves screen to the left.

Vertical position (Vertical)

: Moves screen up.

: Moves screen down.

Press ENTER to store.



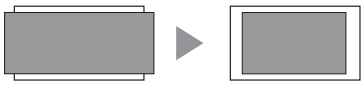
“Position” adjustment screen

Adjusting Screen Size (Size)

Screen width (Width)

: Increases width.

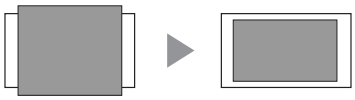
: Reduces width.



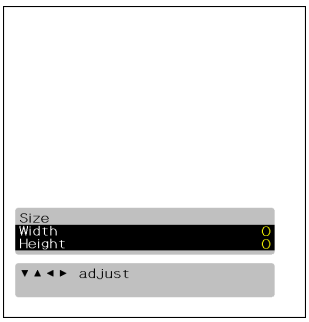
Screen height (Height)

: Increases height.

: Reduces height.



Press ENTER to store.



“Size” adjustment screen

ADJUSTING AUDIO

- You can make changes to all audio adjustment options in the AUDIO Menu. See Page E-33 for the basic operation procedures.
- The changes you make will be stored for the selected input mode. Therefore, you need to select a desired input mode before making any changes.

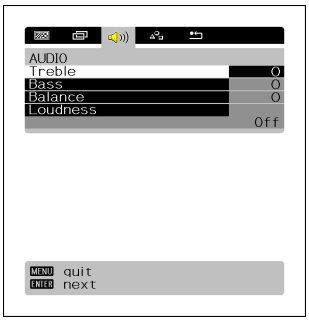
Adjusting Treble (Treble)

Press ◀ ▶ to make adjustments.

▶: Stronger treble

◀: Weaker treble

Press ENTER to store.



AUDIO Menu screen

Adjusting Bass (Bass)

Press ◀ ▶ to make adjustments.

▶: Stronger bass

◀: Weaker bass

Press ENTER to store.

Adjusting Volume Balance (Balance)

Press ◀ ▶ to make adjustments.

▶: Shifts the volume balance towards the right.

◀: Shifts the volume balance towards the left.

Press ENTER to store.

Setting Loudness (Loudness)

Corrects the balance between bass and treble for easy listening even with weak volume.

Each time you press ◀ or ▶, one of the available choices appears in the following sequence:

Off ↔ Min. ↔ Std. ↔ Max.

Press ENTER to store.

Note

- The screen display disappears if there is no operation within approximately 60 seconds.
- Depending on the model or the optional devices, some of the functions may not be available.
- The adjustment range varies according to the display signals. Make adjustments to your preferred picture quality within the adjustment range.
- Depending on the type of signal, it may not be possible to make some of the settings or adjustments.

OTHER ADJUSTMENTS

- **FEATURES setup screen has the following 5 options.**

  See Page E-33 for the basic operation procedures.

  [Adjustment]: Can make a fine adjustment of pictures such as Dot Clock, Clamp Position.

  [On Screen Menu]: Can make a display setting such as OSD, Language. (See P. E-39.)

  [Input Terminal]: Can make an input terminal setting such as Video Input. (See P. E-40.)

  [Channel Setting]: Can make channel settings. (See P. E-40.)

  [Others]: Used to make Screen Orbiter and other settings. (See P. E-41–E-43.)

ADJUSTMENT

Dot Clock, Clock Phase, Clamp Position, and Auto Calibration are adjusted as shown in the following chart.

Select the item with ▲ ▼ , and then adjust with ◀ ▶. Finally, press ENTER to implement the adjustments.

Adjustment Item	Contents of Adjustments	Operation
Dot Clock (mD-sub)	You may find the vertically-striped pattern in pictures, depending on the clock frequency of your PC's processor. If you experience blurring, you can obtain a clearer picture by adjusting the "Dot Clock".	Use ◀ ▶ to adjust to minimize vertically-striped pattern in pictures.
Clock Phase (mD-sub)	Pictures and the outline of letters may blur or flicker as the clock phase of your PC may be different. In this case, adjust the clock phase manually. Normally, the automatic setting ensures the optimal value.	Use ◀ ▶ to adjust to minimize pictures blur.
Clamp Position (mD-sub,Comp. video)	Adjusts the extremely dark or bright pictures. Normally, the automatic setting ensures the optimal value.	Use ◀ ▶ to adjust pictures optimally.
Auto Calibration (mD-sub)	Adjusts the dynamic range of images to the optimum. Performed while a white screen signal is received.	Display the Auto Calibration screen and select Execute, and then use ▲ ▼ to select the item.

ON SCREEN MENU

- **Setting Display Information (OSD)**

You can use this option to select from following display indication.

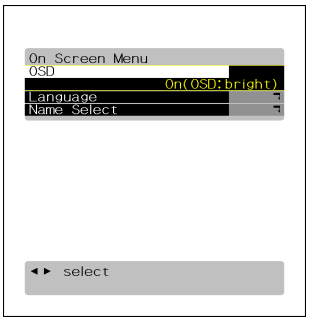
Each time you press ◄ or ►, one of the available choices appears in the following sequence:

► On(OSD:bright) ◄► On(OSD:dark) ◄

[On (OSD:bright)]: On-screen information shown in light color.
[On (OSD:dark)]: On-screen information shown in dark color.

Press ENTER to store.

* If the screen picture is too bright, some characters may be difficult to watch when [On (OSD:dark)] is selected.



OSD selection screen

- **Selecting Language (Language)**

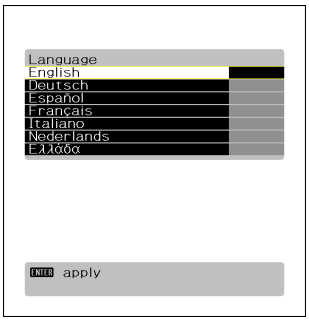
You can use this option to select the language displayed on the screen.

(1) Select "Language" and press ENTER.
The "Language" selection screen will appear.

(2) Press ◄ or ► to select your desired language.

English
Deutsch (German)
Español (Spanish)
Français (French)
Italiano (Italian)
Nederlands(Dutch)
Ελλάδα (Greek)

(3) Press ENTER.
The menu is displayed in the selected language.



"Language" selection screen

- **Selection of indications (Name Select)**

You can change the settings for indications for video inputs and RGB inputs.

Video input

You can change the settings for indications for the VIDEO inputs.
Select the desired indication in accordance with the connected equipment.
Each time ◄ ► is pressed, the setting is switched. (In the case of VIDEO1)

►Video1◄►DVD1◄►DVD2◄►VCR1◄►VCR2◄►GAME◄►Camcorder◄►STB◄►Satellite◄►Cable TV◄

Press ENTER to store.

RGB input

You can change the settings for indications for the RGB inputs.
Select the desired indication in accordance with the connected equipment.
Each time ◄ ► is pressed, the setting is switched. (In the case of RGB 1)

► RGB1◄► PC1 ◄► PC2◄►DVD1◄►DVD2◄► STB◄►Satellite◄►Cable TV◄

Press ENTER to store.

Note

- The screen display disappears if there is no operation within approximately 60 seconds.
- Depending on the model or the optional devices, some of the functions may not be available.
- The adjustment range varies according to the display signals. Make adjustments to your preferred picture quality within the adjustment range.
- Depending on the type of signal, it may not be possible to make some of the settings or adjustments.

OTHER ADJUSTMENTS (Continued)

SETTING THE INPUT TERMINALS

- **Selecting the settings of Video Input terminal (VIDEO1-4)**

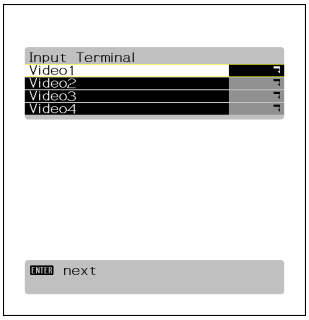
Select the video input format.

Each time ⊖⊕ is pressed, the setting is switched.

Video ↔ S-video ↔ RGB

Press ENTER to store.

* RGB input is not made to Video 3.



Input Terminal Settings Screen

Video Format

You can use this option to select the video format appropriate for the input signal.

Each time you press ⊖ or ⊕, one of the available modes appears in the following sequence:

Auto1 ↔ Auto2 ↔ NTSC ↔ PAL ↔ SECAM ↔ PAL60 ↔ N-PAL ↔ M-PAL ↔ 4.43NTSC

[Auto1]: Automatically selects NTSC, PAL and SECAM.
[Auto2]: Automatically selects NTSC and M-PAL.
[Other than Auto]: You need to select a system appropriate to the input signal.

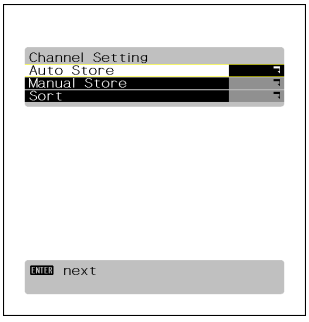
Press ENTER to store.

CHANNEL SETTING

Press ⊖ or ⊖ to select the items for setting. It is switched as shown as below.

Auto Store ↔ Manual Store ↔ Sort

Press ENTER to proceed to the next step.



Channel Settings Screen

Auto Store

Press ⊖ or ⊕ to select the country or region, and then press ENTER.

All the channels are scanned, and only the channels that can be received are assigned to the Program Nos.

* Several minutes are required to scan all the channels. To cancel the operation in progress, press MENU.

* See page E-47 for the selectable TV frequencies.

Manual Store

Press ⊖ or ⊕ to select the Program No. to be stored.

Press ⊖ or ⊖ to select the Manual Store items to be set (Setting or Name). Press ENTER to proceed.

Setting

Press ⊖ or ⊖ to select the setting item.

Freq. ↔ System ↔ Adjust ↔ Skip

- **Freq.**

Each time ⊖ or ⊕ is pressed, the TV frequency is switched.

- **System**

Each time ⊖ or ⊕ is pressed, the TV SYSTEM is switched.

West Euro (standard BG reception) ↔ East Euro (standard DK reception)
France (standard LL' reception) ↔ UK (standard I reception)

- **Adjust**

  Each time ◀ or ▶ is pressed, the fine-tune adjustment for Tuning is switched.

- **Skip**

  This function specifies whether or not to use the Skip function for the displayed Program No.

  Each time ◀ or ▶ is pressed, the setting is switched.

  Off ↔ On

  [Off]: The Skip function is not available when Channel Up/Down has been selected.
  [On]: The Skip function is available when Channel Up/Down has been selected.

  Press ENTER to store.

  * Select [On] when you want to skip the channels that they are not broadcasting programs.

Name

An eight-character name can be specified for each Program No.

Press ◀ or ▶ to select the character input position, and ▲ or ▼ to switch through the characters.

When the input is completed, press ENTER to store.

* When switching the programs, etc., the OSD becomes the indication by the stored name.

Sort

This function sorts the name, the data and the contents of stored programs.

Press ▲ or ▼ to select To (edit destination)/From (edit source), and ◀ or ▶ to switch the Program No.

Press ENTER to store.

OTHER SETTINGS

Auto Off-NO SIG.

You can make to the standby state automatically when the no signal state continued during set up time.

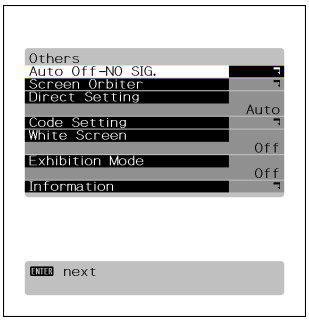
Press ▲ ▼ to select the “Time”.

Press ◀ ▶ to select the amount of time before the standby state starts.

Off ↔ 1 min. ↔ 15 min. ↔ 45 min. ↔ 60 min.

Press ENTER to store.

* The numerical value is the approximate amount of time before the standby state starts.



Auto Off-NO SIG. settings screen

You can assign the black or white color for the background color at the no signal state.

Press ▲ ▼ to select the “Background”.

Press ◀ ▶ to select the displayed background displayed.

Black ↔ White

Press ENTER to store.

* The background color changes to assigned color state after approximate 20 seconds at the no signal state.

Note

- The screen display disappears if there is no operation within approximately 60 seconds.
- Depending on the model or the optional devices, some of the functions may not be available.
- The adjustment range varies according to the display signals. Make adjustments to your preferred picture quality within the adjustment range.
- Depending on the type of signal, it may not be possible to make some of the settings or adjustments.

OTHER ADJUSTMENTS (Continued)

- **Minimizing phosphor burn-in (Screen Orbiter)** **for RGB**

  You can use this option to move the screen position to minimize phosphor-induced "burn-in".

  Follow the steps below.

  (1) Select "Screen Orbiter" and press ENTER.

  The "Screen Orbiter" setting screen will appear.

  (2) Press ▲ or ▼ to select "Mode/Time".

  (3) Select a desired pattern.

  Each time you press ◄ or ►, one of the available choices appears in the following sequence:

  → Off ↔ Time ↔ Mode ←

  [Off]: Disables Screen Orbiter.

  [Time]: Moves the pattern approximately every one hour.

  [Mode]: Moves the pattern when the power is turned ON or when you switch between modes.

  (4) Press ▲ or ▼ to select "Moving Area".

  (5) Press ◄ or ► to select the range for moving the pattern.

  Each time you press ◄ or ►, one of the available choices appears in the following sequence:

  → Min. ↔ Std. ↔ Max. ←

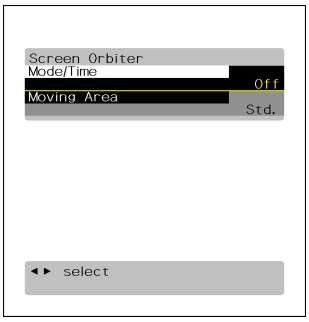
  [Min.]: Pattern moves in small range. (About 5 pixels)

  [Std.]: Pattern moves in moderate range. (About 10 pixels)

  [Max.]: Pattern moves in wide range. (About 15 pixels)

  (6) Press ENTER to store.

  * When the Screen Orbiter function is operated, some letters at the top, bottom, right or left of the screen may be missed.



"Screen Orbiter" setting screen

- **Setting RGB Input Signal Compulsorily (Direct Setting)** **for RGB**

  You can use this option to switch the setting for RGB input signal.

  Each time you press ◄ or ►, one of the available choices appears in the following sequence:

  →Auto↔VGA↔WVGA↔480P↔XGA↔WXGA↔SXGA↔SXGA+←

  [Auto]: The optimum display is obtained automatically for input signals.

  [Others]: The optimum resolution setting is fixed for each signal.

  Press ENTER to store.

  * In Auto mode, the resolution of VGA, WVGA, 480P, XGA, WXGA, SXGA and SXGA+ may not be automatically distinguished. Switch to the fixed display when the image is not displayed properly.

  * Signals that are not applicable depending on the model or input terminals may not be displayed.

- **Specifying RGB Input Signal (Code Setting)** **for mD-sub input**

  Normally, use this option in Auto mode.

- **Displaying white over entire screen (White Screen)**

  You can use this option to display white over the entire screen to minimize phosphor burn-in.

  Each time you press ◄ or ►, one of the available choices appears in the following sequence:

  On ↔ Off

  Press ENTER to store.

- **Setting Exhibition Mode (Exhibition Mode)**

  You can use this option to display the enhanced contrast, which is most suitable for the use by unspecified persons.

  Each time you press ◁ or ▷, one of the available choices appears in the following sequence:

  On ↔ Off

  Press ENTER to store.

  * In Exhibition mode, the display returns to the original setting in about 5 minutes even if the adjustment is changed.

  * The setup will be cancelled when removing the power plug from the receptacle.

- **Displaying System Status (Information)**

  Displays system operation status.

  Select “Information” and press ENTER.

  The “Information” screen will appear.

  [Mode]: Input mode appears at the upper right corner of the screen

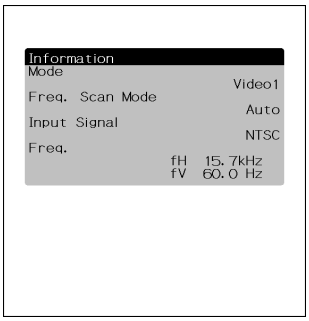
  [Freq. Scan Mode]: Frequency scanning

  [Input Signal]: Video mode

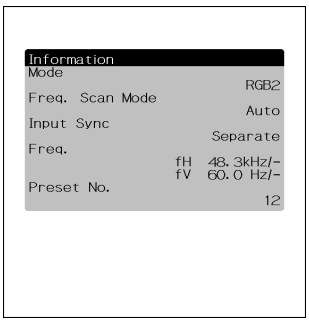
  [Input Sync.]: Signal type

  [Freq.]: Synchronized signal frequency, polarity

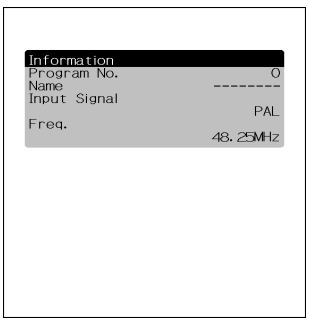
  [Preset No.]: RGB code number



Information screen (Video Mode)



Information screen (RGB Mode)



Status Display Screen (TV Mode)

Note

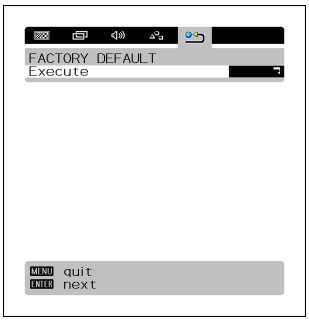
- The screen display disappears if there is no operation within approximately 60 seconds.
- Depending on the model or the optional devices, some of the functions may not be available.
- The adjustment range varies according to the display signals. Make adjustments to your preferred picture quality within the adjustment range.
- Depending on the type of signal, it may not be possible to make some of the settings or adjustments.

INITIALIZATION OF USER ADJUSTMENT VALUE

You can restore the values of the adjustment/setting made in the MENU to factory settings.

1 **Press MENU.**

The main menu screen will appear.



"FACTORY DEFAULT" selected in the main menu screen

2 **Press ◁ or ▷ to select "FACTORY DEFAULT".**

Each time you press ◁ or ▷, one of the available menus appears in the following sequence:

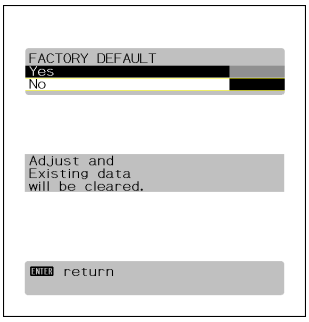
PICTURE ↔ POSITION/SIZE ↔ AUDIO ↔ FEATURES ↔ FACTORY DEFAULT

The FACTORY DEFAULT Menu screen will appear.

3 **Press ENTER.**

- Displays the message of whether to proceed with the initialization.

4 **Press △ or ▽ to select the Yes.**

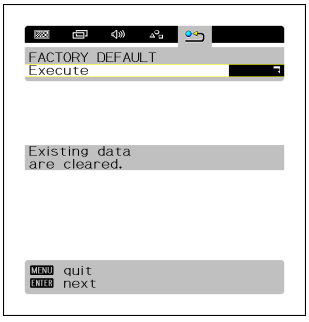


Displays the message of whether to proceed the initialization

5 **Press ENTER.**

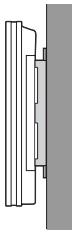
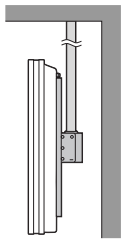
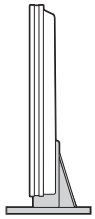
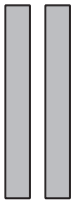
- The message of having completed the initialization will be displayed after initializing.

6 **Press MENU when you finish.**



Displays the message of having completed the initialization

OPTIONS

Wall-mounting Bracket	0° to 15° mounting angle	P-WB4201 (for 42” model / 50” model) P-WB6300 (for 55” model)	
Ceiling unit	5° to 25° mounting angle	P-CT4200 (for 42” model / 50” model) P-CT6300 (for 55” model)	
Desktop Stand unit		P-TT4202 (for 42” model / 50” model, 55” model)	
Speaker (1 set of 2 speakers)		P-SP1000 (for attaching to the display , for 42” model / 50” model /55”model) P-SP4200 (for mounting on the speaker stands, for 42” model) P-SP5010 (for mounting on the speaker stands, for 50” model / 55”model)	
Desktop Speaker Stand (1 set of 2 speaker stands)		P-ST5000 (for P-SP5010)	

* When installing an option, make sure that all installation requirements for that option (as given in the relevant instruction manual) are met.
* The colors of options do not match the display colors perfectly.
* To improve the function and performance of optional accessories, specifications and part names may change. Consult your local dealer before purchasing.

Warning

To prevent injury, fire, and electric shock, arrange for options to be initially installed (or installed at a different location) by your dealer.

CAUTION

This display (P42HTS51 / P50XTS51) is for use only with Fujitsu General Limited’s option (P-WB4201, P-CT4200, P-TT4202).
This display (P55XTS51) is for use only with Fujitsu General Limited’s option (P-WB6300, P-CT6300, P-TT4202).
Using this display with other option can cause instability resulting in possible injury.

MAIN SUPPORTED SIGNALS

This display can store the latest four types of signals for RGB adjustment value. The fifth input signal will replace the adjustment value of the first input signal.

To do this, select a desired signal and follow the instructions in "Adjusting Screen Position and Size" on P. E-36 to adjust the parameters. When you finish, the settings will be automatically stored. Thus, when the display receives that signal, pictures will be displayed in accordance with the settings you most recently selected.

Main corresponding signals (RGB mode)

Display (dots x lines)	Horizontal frequency (kHz)	Vertical frequency (Hz)	Signal
640 x 480	31.47	59.94	VGA
640 x 480	37.50	75.00	VGA 75 Hz
640 x 480	43.27	85.01	VGA 85 Hz
720 x 400	31.47	70.09	400 lines
800 x 600	37.88	60.32	SVGA 60 Hz
800 x 600	46.88	75.00	SVGA 75 Hz
800 x 600	53.67	85.06	SVGA 85 Hz
1024 x 768	48.36	60.00	XGA 60 Hz
1024 x 768	60.02	75.03	XGA 75 Hz
1024 x 768	68.68	84.99	XGA 85 Hz
1280 x 1024	63.98	60.02	SXGA 60 Hz
1280 x 1024	79.98	75.03	SXGA 75 Hz
848 x 480	31.02	60.00	
852 x 480	31.72	59.97	
1360 x 768	47.71	60.01	
720 x 485	15.73	59.94	60 fields
720 x 575	15.63	50.00	50 fields

* With some input signals, "Out of range" may appear even when the horizontal and vertical frequencies are within their permissible ranges. In this event, match the input signals to another frequency rather than those listed above.

In the Comp.video and Video/S-video/TV modes, the display has been factory-set as follows for different input signals:

Main corresponding signals (Comp. video, HDMI mode)

Horizontal frequency (kHz)	Vertical frequency (Hz)	Signal	HDMI
15.73	59.94	SDTV 480i	○
15.63	50.00	SDTV 576i	○
31.47	59.94	SDTV 480p	○
31.25	50.00	SDTV 576p	○
45.00	60.00	HDTV 720p	○
37.50	50.00	HDTV 720p	○
33.75	60.00	HDTV 1080i	○
28.13	50.00	HDTV 1080i	○

Main corresponding signals (Video, S-video mode)

Horizontal frequency (kHz)	Vertical frequency (Hz)	Signal
15.73	59.94	NTSC
15.63	50.00	PAL
15.63	50.00	SECAM
15.63	59.52	PAL60
15.63	50.00	N-PAL
15.73	59.95	M-PAL
15.73	59.94	4.43NTSC

Main supported signals (TV mode): PAL/SECAM

Note

- Depending on the input signal, the display may show pictures of reduced size due to size reduction and interpolation.
- "Out of range" appears if the display receives a signal whose characteristic does not fall within the display's permissible range.
- You can check input signals through "Information" on the FEATURES Menu screen. (See P. E-43.)
- All terms (i.e., company and product names) used in this document are trademarks or registered trademarks.

TABLE OF TV FREQUENCIES

TABLE OF TV FREQUENCIES

[Applicable Countries]
Austria, Belgium, Denmark, Finland, Germany, Greece, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Luxemburg, Israel, Cyprus, Others

Frequency (MHz)	Frequency (MHz)
48.25	495.25
55.25	503.25
62.25	511.25
69.25	519.25
76.25	527.25
83.25	535.25
90.25	543.25
97.25	551.25
105.25	559.25
112.25	567.25
119.25	575.25
126.25	583.25
133.25	591.25
140.25	599.25
147.25	607.25
154.25	615.25
161.25	623.25
168.25	631.25
175.25	639.25
182.25	647.25
189.25	655.25
196.25	663.25
203.25	671.25
210.25	679.25
217.25	687.25
224.25	695.25
231.25	703.25
238.25	711.25
245.25	719.25
252.25	727.25
259.25	735.25
266.25	743.25
273.25	751.25
280.25	759.25
287.25	767.25
294.25	775.25
303.25	783.25
311.25	791.25
319.25	799.25
327.25	807.25
335.25	815.25
343.25	823.25
351.25	831.25
359.25	839.25
367.25	847.25
375.25	855.25
383.25	
391.25	
399.25	
407.25	
415.25	
423.25	
431.25	
439.25	
447.25	
455.25	
463.25	
471.25	
479.25	
487.25	

[Applicable Countries]
Poland

Frequency (MHz)	Frequency (MHz)
49.75	551.25
59.25	559.25
77.25	567.25
85.25	575.25
93.25	583.25
111.25	591.25
119.25	599.25
127.25	607.25
135.25	615.25
143.25	623.25
151.25	631.25
159.25	639.25
167.25	647.25
175.25	655.25
183.25	663.25
191.25	671.25
199.25	679.25
207.25	687.25
215.25	695.25
223.25	703.25
231.25	711.25
239.25	719.25
247.25	727.25
255.25	735.25
263.25	743.25
271.25	751.25
279.25	759.25
287.25	767.25
295.25	775.25
303.25	783.25
311.25	791.25
319.25	799.25
327.25	807.25
335.25	815.25
343.25	823.25
351.25	831.25
359.25	839.25
367.25	847.25
375.25	855.25
383.25	
391.25	
399.25	
407.25	
415.25	
423.25	
431.25	
439.25	
447.25	
455.25	
463.25	
471.25	
479.25	
487.25	
495.25	
503.25	
511.25	
519.25	
527.25	
535.25	
543.25	

[Applicable Countries]
Italy

Frequency (MHz)	Frequency (MHz)
53.75	543.25
62.25	551.25
82.25	559.25
105.25	567.25
112.25	575.25
119.25	583.25
126.25	591.25
133.25	599.25
140.25	607.25
147.25	615.25
154.25	623.25
161.25	631.25
168.25	639.25
175.25	647.25
183.75	655.25
192.25	663.25
201.25	671.25
210.25	679.25
217.25	687.25
224.25	695.25
231.25	703.25
238.25	711.25
245.25	719.25
252.25	727.25
259.25	735.25
266.25	743.25
273.25	751.25
280.25	759.25
287.25	767.25
294.25	775.25
303.25	783.25
311.25	791.25
319.25	799.25
327.25	807.25
335.25	815.25
343.25	823.25
351.25	831.25
359.25	839.25
367.25	847.25
375.25	855.25
383.25	
391.25	
399.25	
407.25	
415.25	
423.25	
431.25	
439.25	
447.25	
455.25	
463.25	
471.25	
479.25	
487.25	
495.25	
503.25	
511.25	
519.25	
527.25	
535.25	

[Applicable Countries]
France

Frequency (MHz)	Frequency (MHz)
47.75	575.25
55.75	583.25
60.50	591.25
63.75	599.25
116.75	607.25
128.75	615.25
140.75	623.25
152.75	631.25
164.75	639.25
176.00	647.25
176.75	655.25
184.00	663.25
188.75	671.25
192.00	679.25
200.00	687.25
200.75	695.25
208.00	703.25
212.75	711.25
216.00	719.25
224.75	727.25
236.75	735.25
248.75	743.25
260.75	751.25
272.75	759.25
284.75	767.25
296.75	775.25
303.25	783.25
311.25	791.25
319.25	799.25
327.25	807.25
335.25	815.25
343.25	823.25
351.25	831.25
359.25	839.25
367.25	847.25
375.25	855.25
383.25	
391.25	
399.25	
407.25	
415.25	
423.25	
431.25	
439.25	
447.25	
455.25	
463.25	
471.25	
479.25	
487.25	
495.25	
503.25	
511.25	
519.25	
527.25	
535.25	
543.25	
551.25	
559.25	
567.25	

[Applicable Countries]
Great Britain, Ireland

Frequency (MHz)	Frequency (MHz)
45.75	551.25
53.75	559.25
61.75	567.25
105.25	575.25
112.25	583.25
119.25	591.25
126.25	599.25
133.25	607.25
140.25	615.25
147.25	623.25
154.25	631.25
161.25	639.25
168.25	647.25
175.25	655.25
183.25	663.25
191.25	671.25
199.25	679.25
207.25	687.25
215.25	695.25
231.25	703.25
238.25	711.25
245.25	719.25
252.25	727.25
259.25	735.25
266.25	743.25
273.25	751.25
280.25	759.25
287.25	767.25
294.25	775.25
303.25	783.25
311.25	791.25
319.25	799.25
327.25	807.25
335.25	815.25
343.25	823.25
351.25	831.25
359.25	839.25
367.25	847.25
375.25	855.25
383.25	
391.25	
399.25	
407.25	
415.25	
423.25	
431.25	
439.25	
447.25	
455.25	
463.25	
471.25	
479.25	
487.25	
495.25	
503.25	
511.25	
519.25	
527.25	
535.25	
543.25	

Note

If you execute Auto Store function after selecting “Country”, Program Nos. 0-99 are automatically stored in order, starting from the lowest frequency. If Program Nos. 0-99 are not stored automatically, please use Manual Store function to store them. See page E-40 for detailed operations.

SPECIFICATION

WIDE PLASMA DISPLAY

Model	P42HTS51E	P50XTS51E	P55XTS51E
Screen size	42” wide screen: 92.2 cm (W) x 52.2 cm (H) (106.0 cm diagonal) 36.3 inch (W) x 20.6 inch (H) (41.7 inch diagonal)	50” wide screen: 110.6 cm (W) x 62.2cm (H) (126 9cm diagonal) 43.5 inch (W) x 24.5inch (H) (50 inch diagonal)	55” wide screen: 122.9 cm (W) x 69.1cm (H) (140 cm diagonal) 48.4 inch (W) x 27.2inch (H) (55.1 inch diagonal)
Aspect ratio	16:9 (wide)		
Number of pixels	1024 (H) x 1024 (V)	1366 (H) x 768 (V)	
Weight	31.5 kg / 69 lbs	45 kg / 99 lbs	52 kg / 114 lbs
Outer dimensions	103.9 (W) x 64.0 (H) x 8.7 (D) cm 40.9 (W) x 25.2 (H) x 3.4 (D) inch (does not include outer projections)	121.6 (W) x 72.6 (H) x 10.0 (D) cm 47.9 (W) x 28.6 (H) x 3.9 (D) inch (does not include outer projections)	138.0 (W) x 80.8 (H) x 12.5 (D) cm 54.3 (W) x 31.8 (H) x 4.9 (D) inch (does not include outer projections)
Power supply	110-240 VAC 50/60 Hz		
External equipment terminals			
External speaker output terminal	Lever terminal, 1 line (L/R) Max. output: 10 W + 10 W, 6 Ω		
Input for AV Selector			
Video input	Display (picture) input terminal		
Audio input	Display (audio) input terminal		
Operating conditions	Temperature: 0 to 40 °C / 32 to 104 °F Humidity: 20 to 80 %		
Accessories	1 power cable, 1 System cable (picture), 1 System cable (audio), 2 small ferrite cores, 1 big ferrite core		

Regulation

- CE Safety: EN60065
  EMC: EN55013 (CISPR13)
  EN55020 (CISPR20)
  EN55022 (CISPR22)
  EN55024 (CISPR24)
  EN61000-3-2 1995
  EN61000-3-3 1995

AV SELECTOR

Model	P-TU4251E	P-TU5051E	P-TU5551E
Weight	5 kg / 11.0 lbs		
Outer dimensions	43.0 (W) x 9.5 (H) x 35.0 (D) cm / 16.9 (W) x 3.7 (H) x 13.8 (D) inch		
Power supply	110-240 VAC 50/60 Hz		
External equipment terminals			
Antenna input	TV 75Ω		
Video 1, 2, 4 input terminal	Video, Audio:SCART terminal		
Video 3 input terminal (S-video priority)	Video: Pin jack 1.0 Vp-p/75 Ω S-video: S-video terminal (Y-signal 1.0 Vp-p/75 Ω , C-signal 0.286 Vp-p/75 Ω) Audio (Same as RGB 2 input):Pin jack 0.5 Vrms (Left, Right)		
Video 5, 6 input terminal	Component video: 3 Pin jack terminals Y: 1 Vp-p/75 Ω P_B/C_B: 0.7 Vp-p/75 Ω P_R/C_R: 0.7 Vp-p/75 Ω Audio: Pin jack 0.5 Vrms (Left, Right)		
Video 7 input terminal	Video/Audio: HDMI Terminal (HDMI type A connector)		
RGB 1 input terminal	Video: mD-sub 3 parallel 15-pin 0.7 Vp-p/75 Ω Audio: Mini pin jack 0.5 Vrms (Left, Right)		
RGB 2 input terminal	Video: mD-sub 3 parallel 15-pin 0.7 Vp-p/75 Ω Audio (Same as video 3 input):Pin jack 0.5 Vrms (Left, Right)		
Digital 1, 2 audio input terminal	Optical input		
Amplifier output terminal	Analog audio: Pin jack 0.5 Vrms (Left, Right) Digital audio		
Output for display	Display (picture) output terminal Display (audio) output terminal		
Operating conditions	Temperature: 0 to 40 °C / 32 to 104 °F Humidity: 20 to 80 %		
Accessories	2 user's manuals, 1 remote control, 2 AA batteries, 1 power cable, 1 big ferrite core		

Regulation

- CE Safety: EN60065
  EMC: EN55013 (CISPR13)
  EN55020 (CISPR20)
  EN55022 (CISPR22)
  EN55024 (CISPR24)
  EN61000-3-2 1995
  EN61000-3-3 1995

Note

- Specifications and external appearance may be change for the sake of improvement.
- Viewing the screen constantly for extended periods can strain your eyes. Be sure to stay at a proper distance (at least 1.6 m or 5.2 feet for 42" / at least 1.9 m or 5.2 feet for 50" / at least 2.1 m or 6.9 feet for 55") from the screen and to look occasionally away while working.
- Plasmavision™ is a worldwide trademark of Fujitsu General Limited and is a registered trademark in Japan, the U.S.A. and other countries or areas.

CLEANING AND MAINTENANCE

Precautions

Be sure to remove the power plug from the receptacle before cleaning the display.
Be sure not to clean the display using a cloth dampened with volatile solvents, such as benzene or thinner. Such solvents can harm the display's cabinet, the filter at the screen front, and the remote control. They can also cause paint to come off these sections.

Cleaning the Screen

Clean the screen gently with a soft cloth.
The screen surface is fragile. Never attempt to clean it with a hard material, press on it forcefully, or tap it.

Cleaning the Cabinet and Remote Control

Use a soft cloth for cleaning.
If the cabinet or remote control is heavily stained, soak a soft cloth in a mixture of water and detergent and squeeze it dry before wiping off the stains. Use a soft, dry cloth for final cleaning.

Cleaning the ventilation grille

Remove dust from the ventilation grille in the rear of the main unit periodically with a vacuum cleaner as the accumulated dust can increase the internal temperature of the main unit causing machine failure or fire hazard.

BEFORE OBTAINING SERVICE

In the event of problems with the display, check the following explanations before contacting your dealer for servicing.

Problem	Action
• Power does not turn ON.	• Check whether the power plug is securely inserted into the receptacle.
• No pictures are displayed.	• Check cables for disconnection. • Check whether the power for all input equipment is ON. • Check for connection to wrong terminals or for wrong input mode. • Check whether the input mode display is colored pink.Special setup may have been made. Return to original setup or initialize the User adjustment value.
• Remote control does not function properly.	• Check for incorrect battery orientation. • Check for dead batteries. • Check for distance from the display. • Check whether you are pointing the remote control transmitter properly at the display's receiver. • Check for any obstacle between the remote control and the display.
• The display makes a snapping sound.	• This sound is produced when the cabinet expands or contracts due to variations in temperature. This sound does not indicate that the display has a problem.
• The display makes a buzzing sound.	• The display has fans to maintain the temperature of internal components at a constant level. This sound is produced by the fan as it rotates. (Applies to models equipped with a fan.)
• There are spots on the screen.	• Check whether your AV equipment is affected by interference from automobiles, trains, high-voltage transmission lines, neon signs or other potential sources of interference.
• Degraded colors/tints	• Check whether all picture adjustments have been properly made. (See "Adjusting Pictures" on P. E-34–E-35.)
• Improper screen position/size	• Check whether screen position and size have been properly adjusted. (See "Adjusting Screen Position and Size" on P. E-36.)
• No audio	• Check cables for disconnection. • Check whether the proper audio input has been selected. (See "AUDIO IN" on P. E-29.)
• If "Out of range" appears, the display is receiving a signal whose picture or signal cannot be reproduced by the display. • The screen turns to black and white.	• Signals that are not supported by this display have been input. Check which signals are supported. (See "MAIN SUPPORTED SIGNALS" on page E-46.)
• If "Error message Condition 1" appears, the fan is defective.	• Remove the power plug from the receptacle, and contact your dealer for repairs. (Applies to models equipped with a fan.)
• If "Error message Condition 2" appears, the display's internal components are extremely hot.	• Remove the power plug from the receptacle. (You can turn the power back ON again when the components have cooled sufficiently.) If the message appears again when you turn the power back on, remove the power plug from the receptacle, and contact your dealer for a repairs.
• If "Change refresh rate to 60Hz" appears,	• The picture may get blurred with vertical frequency of other than 48.3-51.8 or 58.4-61.4 (Hz). Change the setting of your PC, etc.
• If the power indicator lamp flashes red or green.	• Remove the power plug from the receptacle, and inform your dealer about how the lamp flashed. The power indicator lamp flashes differently depending on the type of problem.

Note

• Functions may not be available with some models and some device options.